

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: Quint, Wilhelmus  
Van Doorn, Leendert
- (ii) TITLE OF INVENTION: Probes, methods and kits for detection and typing of Helicobacter pylori nucleic acids in biological samples.
- (iii) NUMBER OF SEQUENCES: 280
- (iv) CORRESPONDENCE ADDRESS:
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  - (E) COUNTRY: USA
  - (F) ZIP: 92660
- (v) COMPUTER READABLE FORM:
  - (A) MEDIUM TYPE: Floppy disk
  - (B) COMPUTER: IBM PC compatible
  - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
  - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (viii) ATTORNEY/AGENT INFORMATION:
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- (vii) PRIOR APPLICATION DATA:
  - (A) APPLICATION NUMBER: EP96/870131.8
  - (B) FILING DATE: 16-OCT-1996
- (A) APPLICATION NUMBER: PCT/EP97/05614
- (B) FILING DATE: 10-OCT-1997

(2) INFORMATION FOR SEQ ID NO: 1:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 20 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

GTTGATAACG CTGTCGCTTC

20

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

GGAGCRTTRG TCAGCATCAC

20

(2) INFORMATION FOR SEQ ID NO: 3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

GCTTTAGTAG GAGCRTTRGT C

21

(2) INFORMATION FOR SEQ ID NO: 4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

GGAGCGTTGA TTAGYKCCAT

20

(2) INFORMATION FOR SEQ ID NO: 5:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

GTTTTAGCAG GAGCGTTGA

19

(2) INFORMATION FOR SEQ ID NO: 6:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

GCTAAAYACGC CAAAYGATCC

20

(2) INFORMATION FOR SEQ ID NO: 7:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

GATCCCATAAC ACAGCGAGAG

20

(2) INFORMATION FOR SEQ ID NO: 8:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

TTGATACGGG TAATGGTGG

19

(2) INFORMATION FOR SEQ ID NO: 9:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

GGGTAATGGT GGTTCAACA

20

(2) INFORMATION FOR SEQ ID NO: 10:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 21 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

ACGAATTAA GAGTGAATGG C

21

(2) INFORMATION FOR SEQ ID NO: 11:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 21 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

AGAGCGATAA CGGGCTAAC A

21

(2) INFORMATION FOR SEQ ID NO: 12:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 24 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

TTGACCAACA ACCACAAACC GAAG

24

(2) INFORMATION FOR SEQ ID NO: 13:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 22 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

CTTCCCTTAA TTGCGAGATT CC

22

(2) INFORMATION FOR SEQ ID NO: 14:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

CCTGARACCG TTCCTACAGC

20

(2) INFORMATION FOR SEQ ID NO: 15:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

GTGGATGCYC ATACRGCTWA

20

(2) INFORMATION FOR SEQ ID NO: 16:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 20 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

RTGAGCTTGT TGATATTGAC

20

(2) INFORMATION FOR SEQ ID NO: 17:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 21 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

CACAGCCACT TTCAATAACG A

21

(2) INFORMATION FOR SEQ ID NO: 18:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 20 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

CGTCAAAATA ATTCCAAGGG

20

(2) INFORMATION FOR SEQ ID NO: 19:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 19 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

CAACAACCAC AAACCGAAG

19

(2) INFORMATION FOR SEQ ID NO: 20:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 21 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

GATTGGTTTT TGATCAGGAT C

21

(2) INFORMATION FOR SEQ ID NO: 21:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:

GATAAGAACG ATAGGGATAAA

20

(2) INFORMATION FOR SEQ ID NO: 22:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:

AATACTGATT CTTTTTGG

18

(2) INFORMATION FOR SEQ ID NO: 23:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:

GTGGATGCC ATACGGCTAA

20

(2) INFORMATION FOR SEQ ID NO: 24:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:

GTGGATGCTC ATACAGCTWA

20

(2) INFORMATION FOR SEQ ID NO: 25:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:

GTGGATGCC ATACGATCAA

20

(2) INFORMATION FOR SEQ ID NO: 26:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 20 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 26:

GCGAGCGCTC ATACGGTCAA

20

(2) INFORMATION FOR SEQ ID NO: 27:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 20 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 27:

GGATTTTGATCGCTTTATT

20

(2) INFORMATION FOR SEQ ID NO: 28:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 20 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 28:

GGGYTATTGG TYAGCATCAC

20

(2) INFORMATION FOR SEQ ID NO: 29:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 20 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 29:

GCTTAGTRG GGYTATTGGT

20

(2) INFORMATION FOR SEQ ID NO: 30:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 19 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 30:

TTGATACKGG TAATGGTGG

19

(2) INFORMATION FOR SEQ ID NO: 31:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 20 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 31:

KGGTAATGGT GGTTTCAACA

20

(2) INFORMATION FOR SEQ ID NO: 32:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 32:

KGGTAATGGT GGTTTCAACA

20

(2) INFORMATION FOR SEQ ID NO: 33:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 33:

AGAGCGATAA YGGKCTAAC A

21

(2) INFORMATION FOR SEQ ID NO: 34:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 34:

AGGGTAGAAA TGGTATCGAC A

21

(2) INFORMATION FOR SEQ ID NO: 35:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 35:

CATGCYGCCT TCTTTACAAC CGT

23

(2) INFORMATION FOR SEQ ID NO: 36:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 36:

CATGCCGCCT TTTTCACRAC CGT

23

(2) INFORMATION FOR SEQ ID NO: 37:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 23 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 37:

CATGCCGCTC TTTTTACAAC CGT

23

(2) INFORMATION FOR SEQ ID NO: 38:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 23 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 38:

CATGCCGCCT TTTTTACAAC CGT

23

(2) INFORMATION FOR SEQ ID NO: 39:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 23 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 39:

AGTCGCGCYT TTTTYACAAC CGT

23

(2) INFORMATION FOR SEQ ID NO: 40:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 184 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 40:

CCCTCTGGTT TCTCTCGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA	60
TGCCGCCCTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGGTATCG CTACAGGCAC	120
CGCTGTAGGA ACGGTCTCAG GGCTTCTTAG TTGGGGACTA AAACAAGCCG AAGAAGCCAA	180
AAAA	184

(2) INFORMATION FOR SEQ ID NO: 41:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 199 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 41:

TCGCCCTCTN GTTTCTCTCG CTTTAGTGN AGCATNGTC AGCATCACAC CGCAACANAG	60
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TCATGCCGCC TTTTCACAA CCGTNATCAT TCCAGCCATT GTTGGGGTA TNGCTACAGG 120  
CACCGCTGTA GGAACGGTCT CAGGGCTTCT TAGTTGGGA CTAAAACAAG CCGAAGAAC 180  
CAATAAAACC CCAGATAAA 199

(2) INFORMATION FOR SEQ ID NO: 42:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 227 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 42:

GAATGCCCT YTGGTTCTC TTGCTTAGT AGGAGCATTG RTTAGYRYCA YACCGCAACA 60  
AAGTCATGCC GCCTTTTYA CRACCGTGAT CATTCCAGCC ATTGTTGGRG GTATCGCTAC 120  
AGGCACTGCT GTAGGAACGG TCTCAGGGCT TCTTAGTTGG GGRCTCAAAC AAGCCGAAGA 180  
AGCSAATAAA ACCCCRGATA AACCCGATAA AGTTTGGCGC ATTCAAG 227

(2) INFORMATION FOR SEQ ID NO: 43:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 176 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 43:

GCCCTTTAGT TTCTCTCGCT TTAGTGGGT TATTGGTCAG CATCACACCA CAAAAAAAGTC 60  
ATGCCGCCTT TTTCACAAACC GTGATCATTC CAGCCATTGT TGGAGGTATC GCTACAGGTG 120  
CTGCTGTAGG AACGGTCTCA GGGCTTCTTG GTTGGGGCT CAAACAAGCC GAAGAA 176

(2) INFORMATION FOR SEQ ID NO: 44:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 185 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 44:

GCCCTCTGGT TTCTCTCGCT TTAGTAGGAG CATTGGTCAG CATCACACCG CAACAAAGTC	60
ATGCCGCCTT TTTCACAAACC GTGATCATTC CAGCCATTGT TGGAGGTATC GCTACAGGCG	120
CTGCTGTAGG AACGGTCTCA GGGCTTCTTA GCTGGGGGCT CAAACAAGCC GAAGAAGCCA	180
ATAAA	185

(2) INFORMATION FOR SEQ ID NO: 45:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 204 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 45:

AATCGCCCTC TGGTTCTCT CGCTTAGTA GGAGCATTGG TCAGCATCAC ACCGCAACAA	60
AGTCATGCCG CCTTTTTAC AACCGTGATC ATTCCAGCCA TTGTTGGAGG TATCGCTACA	120
GGCGCTGCTG TAGGAACGGT CTCAGGGCTT CTTAGCTGGG GGCTCAAACA AGCCGAACAA	180
GCCAATAAAG CCCCGGACAA ACCC	204

(2) INFORMATION FOR SEQ ID NO: 46:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 207 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 46:

GAATGCCCT TTAGTTCTC TTGCTTAGT AGGAGCATG GTCAGCATCA CACCGCAACA	60
AAGTCATGCC GCCTTTCA CAACCGTGAT CATTCCAGCC ATTGTGGGG GTATCGCTAC	120
AGGCCTGCT GTAGAACGG TTTCAGGGCT TCTTGGCTGG GGGCTAAAC AAGCCGAAGA	180
AGCCAATAAA ACCCCAGATA AACCCGA	207

(2) INFORMATION FOR SEQ ID NO: 47:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 207 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 47:

CAATGCCCT CTAGTTCTC TCGCTTAGT AGGAGCATG GTCAGCATCA CACCGCAACA	60
AAGTCATGCC GCCTTTCA CAACCGTGAT CATTCCAGCC ATTGTGGGG GTATCGCTAC	120
AGGCCTGCT GTAGAACGG TCTCAGGGCT TCTTAGCTGG GGGCTAAAC AAGCCGAAGA	180
AGCCAATAAA ACCCCGGACA AACCCGA	207

(2) INFORMATION FOR SEQ ID NO: 48:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 207 base pairs  
(B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 48:

CAATGCCCT CTGGTTCTC TTGCTTAGT AGGAGCGTTA GTCAGCATCA CACCGCAACA	60
AAGTCATGCC GCCTTTCA CAACCGTGAT CATTCCAGCC ATTGTTGGGG GGATCGCTAC	120
AGGCCTGCT GTAGGAACGG TCTCAGGGCT TCTTAGCTGG GGGCTCAAAC AAGCCGAAGA	180
AGCCAATAAA ACCCCAGATA AACCCGA	207

(2) INFORMATION FOR SEQ ID NO: 49:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 176 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 49:

CCCTTAGTT TCTCTGTCT TAGCAGGAGC GTTGATTAGC GCCATACCGC AACAAAGTCA	60
TGCCGCCCTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGGTATCG CTACAGGCAC	120
CGCTGTAGGA ACGGTTTCAG GGCTCTTAG CTGGGGCTC AAACAAGCCG AAGAAG	176

(2) INFORMATION FOR SEQ ID NO: 50:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 187 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 50:

CCCTTTAGTT TCTCCTGTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AACAAAGTCA	60
TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGGTATCG CTACAGGCAC	120
TGCTGTAGGA ACGGTCTCAG GGCTTCTTAG CTGGGGGCTC AAACAAGCYG AASAAGCSAA	180
TAAAGCC	187

(2) INFORMATION FOR SEQ ID NO: 51:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 193 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 51:

CTTGAGTTTC TCTTGTAA GCAGGAGCGT TGATTAGCGC CATAACGCAA CAAAGTCATG	60
CCGCCTTTT CACGACCCTG ATCATTCCAG CCATTGTTGG GGGTATCGCT ACAGGCACCG	120
CTGTAGGAAC GGTTTCAGGG CTTCTTAGCT GGGGGCTCAA ACAAGCCGAA GAAGCCAATA	180
AAACCCCAGA TAA	193

(2) INFORMATION FOR SEQ ID NO: 52:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 196 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 52:

GCCCTTAGT TTCTCTCGTT TTAGCAGGAG CGTTGATTAG CTCCATACCG CAACAAAGTC	60
ATGCCGCCTT TTTCACACC GTGATCATTC CAGCCATTGT TGGGGGTATC GCTACAGGCA	120
CCGCTGTTAGG AACGGTTCA GGGCTTCTTA GCTGGGGCT CAAACAAGCC GAACAAGCCA	180
ATAAAGCCCC GGACAA	196

(2) INFORMATION FOR SEQ ID NO: 53:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 131 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 53:

AATGCCCTT TAGTTCTCT TGTTTAGCA GGAGCGTTGA TTAGGCCAT ACCGCAACAA	60
AGTCATGCCG CCTTTTCAC GACCGTNATC ATTCCAGCCA TTGTTNNNNG TATCGCTACA	120
GGCACCGCTG T	131

(2) INFORMATION FOR SEQ ID NO: 54:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 185 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 54:

CTACGCCCTT TAGTTCTCT CGTTTAGCA GGAGCGTTGA TTAGCGCCAT ACCGCAACAA	60
AGTCATGCCG CCTTTTCAC AACCGTGATC ATTCCAGCCA TTGTTGGGG CATCGCTTCA	120
GGCGCTGCTG TAGGAACGGT CTCAGGGCTT CTTAGTTGGG GACTCAAACA AGCCGAAGAA	180
GCGAA	185

(2) INFORMATION FOR SEQ ID NO: 55:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 201 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 55:

AATGCCCTT TAGTTCTCT CGTTTAGCA GGAGCGTTGA TTAGCGCCAT ACCGCAAGAG	60
AGTCATGCCG CCTTTTCAC AACCGTNATC ATTCCAGCCA TTGTTGGGG TATCGCTACA	120
GGCACCGCTG TAGGAACGGT CTNAGGGCTT YTTAGTTGGG GACTNWAACA AGCCGAAGAA	180
GCCAATAAAA CCCCGGATAA A	201

(2) INFORMATION FOR SEQ ID NO: 56:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 187 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 56:

CCCTTAGTT TCTCTCGTT TAGCANNAGC GTTGATTAGC RCCATACCGC AAGAGAGTCA	60
---	----

TGCCGCCTTT TTTACAACCG TNATCATTCC AGCCATTGTT GGGGGTATCG CTACAGGYGC	120
TGCTGTAGGA ACGGTCTCAG GGCTTCTTAG CTGGGGGCTC AAACAAGCCG AACAAAGCAA	180
TAAAGCC	187

(2) INFORMATION FOR SEQ ID NO: 57:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 187 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 57:

CCCTTGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AAGAGAGTCA	60
TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGGTATCG CTACAGGCAC	120
TGCTGTAGGA ACGGTCTCAG GGCTTCTTAG CTGGGGGCTC AAACAAGCCG AAGAAGCGAA	180
TAAAACC	187

(2) INFORMATION FOR SEQ ID NO: 58:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 187 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 58:

CCCTTAGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AAGAGAGTCA	60
TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGGTATCG CTACAGGCAC	120
CGCTGTAGGA ACGGTCTCAG GGCTTCTTAG CTGGGGACTC AAACAAGCCG AAGAAGCGAA	180

TAAAACC

187

(2) INFORMATION FOR SEQ ID NO: 59:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 185 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 59:

CCCTTTAGTT TCTCTCGTT TAGCAGNAGC GTTNATTAGT GCCATACCGC AANANAGTCA	60
TGCCGCCTTT TTCACNACCG TNATCATTCC AGCCATTGTT GGGGTATCG CCACAGGCAC	120
CGCTGTAGGA ACGGTCTCAG GGCTTCTTAG TTGGGGACTN AAACAAGCCG AAGAACGAA	180
TAAAA	185

(2) INFORMATION FOR SEQ ID NO: 60:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 199 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 60:

CAGGAGCGTT GATTAGTGCC ATACCGCAAG AGAGTCATGC CGCCTTTTC ACGACCGTGA	60
TCATTCCAGC CATTGTTGGG GGTATGCCA CAGGCACCGC TGTAGGAACG GTCTCAGGGC	120
TTCTTAGTTG GGGACTCAA CAAGCCGAAG AAGCGAATAA AACCCCAGTA TAAACCCGAT	180
AAAGTTTGGC GCATTCAAG	199

(2) INFORMATION FOR SEQ ID NO: 61:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 188 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 61:

TTTCTCTCGT TTTAGCAGGA GCGTTGATTA GCTCCATACC GCAAGAGAGT CATGCCGCCT	60
TTTCACAAC CGTGATCATT CCAGCCATTG TTGGGGTAT CGCTACAGGC GCTGCTGTAG	120
GAACGGTCTC AGGGCTTCTT AGCTGGGGC TCAAACAAGC CGAAGAACG AATAAAACCC	180
CAGATAAA	188

(2) INFORMATION FOR SEQ ID NO: 62:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 206 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 62:

GAATGCCCT TTAGTTCTC TCGTTTAGC AGGAGCGTTG ATTAGTGCCA TACCGCAAGA	60
GAGTCATGCC GCCTTTCA CGACCGTGAT CATTCCAGCC ATTGTTGGG GTATGCCAC	120
AGGCACCGCT GTAGGAACGG TCTCAGGGCT TCTTAGTTGG GGACTCAAAC AAGCCGAAGA	180
AGCGAATAAA ACCCCAGTAT AAACCC	206

(2) INFORMATION FOR SEQ ID NO: 63:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 206 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 63:

AATGCCCTT TGGTTCTCT CGTTTAGCA GGAGCGTTGA TTAGCTCCAT ACCGCAAGAG	60
AGTCATGCCG CCTTTTCAC AACCGTGTC ATTCCAGCCA TTGTTGGGG TATGGCTACA	120
GGCGCTGCTG TAGGAACGGT CTNAGGGCTT YTTAGCTGGG GGCTNWAACA AGCCGAAGAA	180
GCGAATAAAA CCCCAGATAA ACCCGA	206

(2) INFORMATION FOR SEQ ID NO: 64:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 201 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 64:

AATGCCCTA TTATTCTCT CGTTTAGCA GGAGCGTTGA TTAGCTCCAT ACCGCAAGAA	60
AGTCATGCCG CCTTTTCAC GACCGTGATC ATTCCAGCCA TTGTTGGGG TATGCCACA	120
GGCGCTGCTG TAGGAACGGT CTCAGGGCTT CTTAGCTGGG GGCTCAAACA AGCCGAACAA	180
GCCAATAAAAG CCCCAGACAA A	201

(2) INFORMATION FOR SEQ ID NO: 65:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 197 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 65:

GGCCTTAGT TTCTCTGTT TTAGCAGGAG CGTTGATTAG TGCCATACCG CAAGAGAGCT	60
ATGCCGCCTT TTTCACAACC GTGATCATTC CAGCCATTGT TGGGGGTATC GCTACAGGCA	120
CCGCTGTAGG AACGGTCTCA GGGCTTCTTA GTTGGGGACT CAAACAAGCC GAAGAAGCGA	180
ATAAAACCCC AGATAAA	197

(2) INFORMATION FOR SEQ ID NO: 66:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 201 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 66:

AATCGCCCTT TAGTTCTCT CGTTTAGCA GGAGCGTTA TTAGGCCAT ACCGCAAGAG	60
AGTCATGCCG CCTTTTCAC GACCGTGATC ATTCCAGCCA TTGTTGGGG TATGCCACA	120
GGCACCGCTG TAGGAACGGT CTCAGGGCTT CTTAGTTGGG GACTCAAACA AGCCGAAGAA	180
GCGAATAAAA CCCCCAGATAA A	201

(2) INFORMATION FOR SEQ ID NO: 67:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 195 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 67:

GTGGGGGTGT TAATGGGCAC CGAACTAGGG GCTAATAACGC CAAACGATCC CATAACACAGC	60
GAGAGTCGCG CCTTTTCAC AACCGTGATC ATTCCAGCCA TTGTTGGGG TATGCCACA	120
GGCACTGCTG TAGGAACGGT CTCAGGGCTT CTTAGTTGGG GACTCAAACA AGCCGAAGAA	180
GCAGATAAAA CCCCA	195

(2) INFORMATION FOR SEQ ID NO: 68:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 196 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 68:

AGTGGGGGTG TTAATGGGCA CTGAACTAGG GGCTAACACG CCAAACGATC CCATACACAG	60
CGAGAGTCGC GCCTTTTTA CAACCGTGAT CATTCCAGCC ATTGTTGGGG GTATCGCTAC	120
AGGCCTGCT GTAGGAACGG TTTCAGGGCT TCTTAGCTGG GGGCTCAAAC AAGCCGAACA	180
AGCCAATAAA GCCCCG	196

(2) INFORMATION FOR SEQ ID NO: 69:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 196 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 69:

TAGTGGGGC ATTAATGAGT ACCGAAC TAG GGGCTAACAC GCCAAATGAT CCCATACACA	60
GCGAGAGTCG CGCCTTTTT ACAACCGTGA TCATTCCAGC CATTGTTGGG GGTATCGCTA	120
CAGGCGCTGC TGTAGGAACG GTCTCAGGGC TTCTTAGTCG GGGGCTCAA CAAGCCGAAC	180
AAGCCAATAA AGCCCC	196

(2) INFORMATION FOR SEQ ID NO: 70:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 232 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 70:

CAATCGCCCT ATTATCTCTC TCGCTCTAGT GGGGGTGT TA ATGGGTACCG AACTAGGGC	60
TAACACGCCA AACGATCCCCA TACACAGCGA GAGTCGCGCC TTTTTTACAA CCGTGATCAT	120
TCCAGCCATT GTTGGGGTA TCGCTACAGG CGCTGCTGTA GGAACGGTTT CAGGGCTTCT	180
TAGCTGGGGG CTCAAACAAG CGAACAAAGC CAATAAAGCC CCGGACAAAC CC	232

(2) INFORMATION FOR SEQ ID NO: 71:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 228 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 71:

AATGCCCTA TTATCTCTCGCTCTAGTG GGGTGTAA TGGTACCGA ACTAGGGCT	60
AACACGCCAA ACGATCCCAT ACACAGCGAG AGTCGCGCCT TTTCAAC CGTGATCATT	120
CCAGCCATTG TTGGAGGTAT CGCTACAGGT GCTGCTGTAG GAACGGTCTC AGGGCTTCTT	180
AGCTGGGGGC TCAAACAAGC CGAACAGCC AATAAAGCCC CGGACAAA	228

(2) INFORMATION FOR SEQ ID NO: 72:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 228 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 72:

AATGCCCTA TTATCTCTCGCTTAGTG GGGTRTTAA TGGCACCGA ACTAGGGCT	60
AACACGCCAA ACGATCCCAT ACACAGCGAG AGTCGCGCCT TTTCAAC CGTGATCATT	120
CCAGCCATTG TTGGGGTAT CGCTACAGGC GCTGCTGTAG GAACGGTCTC AGGGCTTCTT	180
AGCTGGGGGC TCAAACAAGC CGAACAGCC AATAAAGCCC CGGATAAA	228

(2) INFORMATION FOR SEQ ID NO: 73:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 233 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 73:

AATCGCCCTA TTATCTCTCT CGCTTTAGAG GGGGTGTTAA TAGGCACCGA ACTAGGGGCT	60
AACACGCCAA ATGATCCCCT ACACAGCGAG AGTCGCGCCT TTTTACAAC CGTTATTATT	120
CCAGGCCATTG TTGGGGGTAT CGCTACAGGC GCTGCTGTAG GAACGGTCTC AGGGCTTCTT	180
AGCTGGGGGC TCAAACAAGC CGAACAAAGCC AATAAAGCCC CGGATAAACCGA CGA	233

(2) INFORMATION FOR SEQ ID NO: 74:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 300 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 74:

TTTAAAGGTG GATGCTCATA CAGCTAATTT TAAAGGTATT GATACGGTA ATGGTGGTTT	60
CAACACCTTA GATTTAGTG GTGTTACAGG TAAGGTCAAT ATCAACAAGC TCATCACAGC	120
TTCCACTAAT GTGGCCGTTA AAAACTCAA CATTAATGAA TTGATTGTTA AAACCAATGG	180
TGTGAGTGTG GGGGAATACA CTCATTTAG CGAAGATATA GGCAGTCAAT CGCGCATCAA	240
TACCGTGCCT TTGGAAACTG GCACTAGGTC AATCTTTCT GGGGTGTTA AATTAAAGG	300

(2) INFORMATION FOR SEQ ID NO: 75:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 300 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 75:

TTTAAAGGTG GATGCTCATA CAGCTAATT TAAAGGTATT GATACGGTA ATGGTGGTTT	60
CAACACCTTA GATTTAGTG GTGTTACAGG TAAGGTCAAT ATCAACAAGC TCATTACGGC	120
TTCCACTAAT GTGGCCGTTA AAAACTCAA CATTAATGAA TTGTTGGTTA AGACCAATGG	180
GGTGAGTGTG GGGGAATACA CTCATTTAG CGAAGATATA GGCAGTCAAT CGCGCATCAA	240
TACCGTGCCT TTGGAAACTG GCACTAGGTC AATCTTTCT GGGGGTGTCA AATTAAAGG	300

(2) INFORMATION FOR SEQ ID NO: 76:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 300 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 76:

TTTAAAAGTG GATGCTCATA CAGCTAATT TAAAGGTATT GATACGGTA ATGGTGGTTT	60
CAACACCTTG GATTTAGTG GCGTTACAGA CAAAGTCAAT ATCAACAAGC TCATCACAGC	120
TTCCACTAAT GTGGCCATTA AAAACTCAA CATTAATGAA TTGTTGGTTA AGACCAATGG	180
GGTGAGTGTG GGGGAATACA CTCATTTAG CGAAGATATA GGCAGTCAAT CGCGCATCAA	240
CACCGTGCCT TTAGAAACTG GCACTAGGTC AATCTTTCT GGGGGTGTCA AATTAAAGG	300

(2) INFORMATION FOR SEQ ID NO: 77:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 300 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 77:

TTTAAAGGTG GATGCTCATA CAGCTAATT TAAAGGTATT GATACGGGTA ATGGTGGTT	60
CAACACCTTA GATTTTAGTG GTGTTACAGG TAAGGTCAAT ATCAACAAGC TCATCACAGC	120
TTCCACTAAT GTGGCCGCTA AAAACTCAA CATTAATGAA TTGATTGTTA AAACCAATGG	180
GGTGAGTGTG GGGGAATACA CTCATTTAG CGAAGATATA GGCAGTCAAT CGCGCATCAA	240
TACCGTGCCT TTGGAAACTG GCACTAGGTC AATCTATTCT GGCGGTGTTA AATTAAAGG	300

(2) INFORMATION FOR SEQ ID NO: 78:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 300 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 78:

TTTAAAAGTG GATGCTCATA CAGCTAATT TAAAGGTATT GATACGGGTA ATGGTGGTT	60
CAACACCTTA GATTTTAGTG GTGTTACAGG TAAGGTCAAT ATCAACAAGC TCATCACAGC	120
TTCCACTAAT GTGGCCGCTA AAAACTCAA CATTAATGAA TTGATTGTTA AAACCAATGG	180
GGTGAGTGTG GGGGAATACA CTCATTTAG CGAAGATATA GGCAGTCAAT CGCGCATCAA	240
TACCGTGCCT TTGGAAACTG GCACTAGGTC AATCTATTCT GGCGGTGTTA AATTAAAGG	300

(2) INFORMATION FOR SEQ ID NO: 79:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 300 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 79:

TTTAAAGTG GATGCTCATA CAGCTAATT TAAAGGTATT GATACTGGTA ATGGTGGTTT	60
CAACACCTTA GATTTAGTG GTGTTACAAA CAAAGTCAAT ATCAACAAGC TCATTACAGC	120
TTCCACTAAT GTGGCCGTTA AAAACTCAA CATTAATGAA TTGTTGGTTA AGATTAATGG	180
GGTGAGTGTG GGGGAATACA CTTATTTAG CGAAGATATA GGCAGTCAAT CGCGCATCAA	240
CACCGTGCCT TTGGAAACTG GCACTAGGTC AATCTATTCT GGCGGTGTTA AATTAAAGG	300

(2) INFORMATION FOR SEQ ID NO: 80:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 300 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 80:

TTTAAAGTG GATGCTCATA CAGCTAATT TAAAGGTATT GATACTGGTA ATGGTGGTTT	60
CAACACCTTA GATTTAGTG GTGTTACAGG TAAGGTCAAT ATCAACAAGC TCATCACGGC	120
TTCCACTAAT GTGGCCGTTA AAAACAACAA CATTAATGAA TTGTTGGTTA AAACCAATGG	180
GATAAGTGTG GGGGAATACA CTCATTTAG CGAAGATATA GGCAGTCAAT CGCGCATCAA	240
TACCGTGCCT TTGGAAACAG GCACTAGGTC AATCTTTCT GGGGGTGTCA AATTAAAG	300

(2) INFORMATION FOR SEQ ID NO: 81:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 300 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 81:

TTTAAAAGTG GATGCTCATA CAGCTAATT TAAAGGTATT GATAACGGTA ATGGTGGTTT	60
CAACACCTTA GATTTTAGTG GTGTTACAGG TAAGGTCAAT ATCAACAAAGC TCATTACGGC	120
TTCCACTAAT GTAGCCGTTA AAAACTTCAA CATTAATGAA TTGTTGGTTA AGACCAATGG	180
GGTGAGTGTG GGGGAATACA CTCATTTAG CGAAGATATA GGCAGTCAAT CGCGCATCAA	240
CACCGTGCCT TTGGAAACTG GCACTAGGTC AATCTTTCT GGGGGTGTCA AATTTAAAAG	300

(2) INFORMATION FOR SEQ ID NO: 82:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 300 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 82:

TTTAAAAGTG GATGCTCATA CAGCTAATT TAAAGGTATT GATAACGGTA ATGGTGGTTT	60
CAACACCTTA GATTTTAGTG GTGTTACAGG TAAGGTCAAT ATCAACAAAGC TCATCACAGC	120
TTCCACTAAT GTGGCCGTTA AAAACTTCAA CATTAATGAA TTGATTGGTTA AAACCAATGG	180
GATAAGTGTG GGGGAATACA CTCATTTAG CGAAGATATA GGAAGTCAAT CGCGCATCAA	240
TACCGTGCCT TTGGAAACTG GCACTAGATC AATCTTTCT GGGGGTGTCA AATTTAAAGG	300

(2) INFORMATION FOR SEQ ID NO: 83:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 375 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 83:

TTTAAGAGTG GACGCTCATA CAGCTTATTT TAATGGCAAT ATTTATCTGG GAAAATCCAC	60
GAATTAAAGA GTGAATGGCC ATAGCGCTCA TTTTAAAAAT ATTGATGCCA GCAAGAGCGA	120
TAACGGGCTA AACACTAGCG CTTTGGATTT CAGCGGCCTT ACAGACAAAG TCAATATCAA	180
CAAGCTCACT ACATCTGCCA CTAATGTGAA CGTTAAAAC TTTGACGTTA AGGAATTGGT	240
GGTTACAACC CGTGTTCAGA GTTTTGGGCA ATACACTATT TTTGGCGAAA ATATAGGCAGA	300
TAAGTCTCGC ATTGGTGTCTG TGAGTTTGCA AACGGGATAT AGCCCGGCCT ATTCTGGGGG	360
CGTTACTTTT AAAAG	375

(2) INFORMATION FOR SEQ ID NO: 84:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 375 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single .
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 84:.

CTTAAGAGTG GATGCTCATA CAGCTTATTT TAATGGCAAT ATTTATTTGG GAAAATCCAC	60
GAATTAAAGA GTGAATGGCC ATAGCGCTCA TTTTAAAAAT ATTGATGCCA GTAAGAGCGA	120
TAACGGGCTA AACACTAGTG CTTTGGATTT TAGCGGCCTT ACAGATAAAAG TCAATATCAA	180
CAAGCTCACT ACATCTGCCA CTAATGTGAA CGTTAAAAC TTTGACATTA AGGAATTGGT	240
GGTTACAACC CGAGTTCAAAG GTTTTGGGCA ATACACTATT TTTGGCGAAA ATATAGGCAGA	300
TAAGTCTCGC ATTGGTGTCTG TTAGTTTGCA AACGGGATAT AGCCCGGCCT ATTCTGGGGG	360

CGTTACTTTT AAAAG

375

(2) INFORMATION FOR SEQ ID NO: 85:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 374 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 85:

TTTAAGAGTG GATGCTCATA CAGCTTATTT TAATGGCAAT ATTTATCTGG GAAAATCCAC	60
GAATTAAAGA GTGAATGGCC ATAGCGCTCA TTTTAAAAAT ATTGATGCCA GTAAGAGCGA	120
TAACGGGCTA AACACTACCA CTTTGGATTT CAGCGGCGTT ACAGATAAAG TCAATATCAA	180
CAAGCTCACT ACATCTGCCA CTAATGTGAA CATTAACACAC TTTGACATTA AGGAATTAGT	240
GGTTACAACC CGAGTTCAGA GTTTGGGCA ATACACTATT TTTGGCGAAA ATATAGGCAGA	300
TAAGCTGCAC ATTGGTGTG TGAGTTTGCA AACGGGATAT AGCCCAGCCT ATTCTGGGGG	360
GCTTACTTTT AAAG	374

(2) INFORMATION FOR SEQ ID NO: 86:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 375 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 86:

TTTAAGAGTG GATGCTCATA CAGCTTATTT TAATGGCAAT ATTTATCTGG GAAAATCCAC	60
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GAATTAAAGA GTGAATGGCC ATAGCGCTCA TTTTAAAAAT ATTGATGCCA GTAAGAGCGA	120
TAACGGGCTA AACACTAGCT CTTTGGATT CAGTGGCGTT ACAGACAAAG TCAATATCAA	180
CAAGCTCACT ACATCTGCCA CTAATGTGAA CGTTAAAAC TTTGACATTA AGGAATTGGT	240
GGTTACAACC CGCGTTCAGA GTTTGGGCA ATACACTATT TTTGGCGAAA ATATAGGCAGA	300
TAAGTCTCGC ATTGGTGTGCG TTAGTTGCA AACGGGATAT AGCCCGGCCT ATTCTGGGGG	360
CGTTACTTTT AAAAG	375

(2) INFORMATION FOR SEQ ID NO: 87:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 365 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
  
- (ii) MOLECULE TYPE: DNA (genomic)
  
- (iii) HYPOTHETICAL: NO
  
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 87:

GATGCTCATA CAGCTTATTT TAATGGCAAT ATTTATCTGG GAAAATCCAC GAATTAAAGA	60
GTGAATGGCC ATAGCGCTCA TTTTAAAAAT ATTGATGCCA GTAAGAGCGA TAACGGGCTA	120
AACACTAGCG CTTTGGATT YAGCGCGTT ACAGAYAAAG TCAATATCAA CAAGCTCACT	180
ACATCTGCCA CTAATGTGAA CGTTAAAAC TTTGACATTA AGGAATTAGT GGTTACAACC	240
CGAGTTCAA A GTTTGGGCA ATACACTATT TTTGGCGAAA ATATAGGCAGA TAAGTCTCGC	300
ATTGGTGTGCG TTAGTTGCA AACGGGATAT AGCCCGGCCT ATTCTGGGGG CGTTACTTT	360
AAAAG	365

(2) INFORMATION FOR SEQ ID NO: 88:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 375 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
  
- (ii) MOLECULE TYPE: DNA (genomic)
  
- (iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 88:

TTTAAGAGGG GATGCTCATA CAGCTTATTT TAATGGCAAT ATTTATTTGG GAAAATCCAC	60
GAATTAAAGA GTGAATGGCC ATAGCGCTCA TTTTAAAAAT ATTGATGCCA GTAAGAGCGA	120
TAACGGGCTA AACACTAGCG YTTTGGATTT TAGCGGCCTT ACAGAYAAAG TCAATATCAA	180
CAAGCTCACT ACATCTGCCA CTAATGTGAA CRTTAAAAAC TTTGAYATTA AGGAATTGGT	240
GGTTACAACC CGAGTTCAA GTTTGGGCA ATACACTATT TTTGGCGAAA ATATAGGCAGA	300
TMAGTCTCGC ATTGGTGTGCG TTAGTTGCA AACGGGATAT AGCCCRGCCT ATTCTGGGGG	360
CGTTACTTTT AAAAG	375

(2) INFORMATION FOR SEQ ID NO: 89:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 375 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 89:

TTTAAGCGTG GATGCTCATA CAGCTTATTT TAATGGTAAT ATTTATCTGG GAAAATCCAC	60
GAATTAAAGA GTGAATGGCC ATAGCGCTCA TTTTAAAAAT ATTGATGCCA CAAAGAGCGA	120
TAACGGGCTA AACACTAGCG CTTTGGATTT CAGCGGCCTT ACAGATAAAAG TCAATATCAA	180
CAAGCTCACT ACATCTGCCA CTAACGTGAA CATTAAAAAC TTTGACATTA AGGAATTGGT	240
GGTTACAACC CGAGTTCAA GTTTGGGCA ATACACTATT TTTGGCGAAA ATATAGGCAGA	300
TAAGTCTCGC ATTGGTGTGCG TGAGTTGCA AACGGGATAT AGCCCGGCCT ATTCTGGGGG	360
CGTTACTTTT AAAAG	375

(2) INFORMATION FOR SEQ ID NO: 90:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 375 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 90:

TTTAAGAGTG GATGCTATA CAGCTTATT TAATGGCAAT ATTTATCTGG GAAAATCCAC	60
GAATTTAAAA GTGAATGGCC ATAGCGCTCA TTTTAAAAAT ATTGATGCCA GTAAGAGCGA	120
TAATGGTCTA AACACTAGTG CTTTGGATT GAGCGGCCTT ACAGACAAAG TCAATATCAA	180
CAAGCTCACT ACAGCTGCCA CTAATGTGAA CATTAAAAAC TTTGACATTA AGGAATTAGT	240
GGTTACGACC CGTGTTCAGA GTTTGGGCA ATACACTATT TTTGGCGAAA ATATAGGAGA	300
TCAATCGCGC ATTGGTGTGCG TTAGTTGCA AACTGGCTAT AGCCCGGCCT ATTCTGGGGG	360
CGTTACTTTT AAAAG	375

(2) INFORMATION FOR SEQ ID NO: 91:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 375 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 91:

CTTAAGAGTG GATGCTATA CAGCTTATT TAATGGCAAT ATTTATCTGG GAAAATCCAC	60
GAATTTAAGA GTGAATGGCC ATAGCGCTCA TTTTAAAAAT ATTGATGCTA GTAAGAGCGA	120
TAACGGGCTA AACACTAGCG CTTTGGATT TAGCGGCCTT ACAGACAAAG TCAATATCAA	180
CAAGCTCACT ACATCTGCCA CTAATGTGAA CATTAAAAAC TTTGACATTA AGGAATTGGT	240

GGTTACAACC CGAGTTCAAA GTTTGGCA ATACACTATT TTTGGCGAAA ATATAGGCGA	300
TAAGTCTCGC ATTGGTGTG TGAGTTGCA AACGGGATAT AGCCCGGCCT ATTCTGGGG	360
CGTTACTTTT AAAAG	375

(2) INFORMATION FOR SEQ ID NO: 92:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 92:

ATGACTAACG AAACCATTAA CCAACAACCA CAAAGCGAAG CGGCTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT AGCTTTCTT AAAGTTGATA ACGCTGTCGC TTCATACGAT	120
CCTGATCAAA AACCAATCGT TGATAAGAAC GATAGGGATA ATAGGCAAGC TTTTGATGGA	180
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTT CAGACTTTAT CAATAAGAGC AATGATTAA TCAACAAAGA CGCTCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTCAG AAATTTGGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 93:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 93:

ATGACTAACG AAACCATTAA CCAACAACCA CAAACCGAAG CGGCTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT AGCTTTCTT AAAGTTGATA ACGCTGTCGC TTCATACGAT	120
CCTGATCAAA ACCAACATCGT TGATAAGAAC GATAGGGATA ACAGGCAAGC TTTTGATGGA	180
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTT CAGACTTTAT CAATAAGAGC AATGATTTAA TCAACAAAGA CGCTCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTCAG AAATTTGGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATAACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 94:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 94:

ATGGCTAACG AACTATTAA CCAACAACCA CAAACCGAAG CGGCTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT AGCTTTCTT AAAGTTGATA ACGCTGTCGC TTCATACGAT	120
CCTGATCAAA ACCAACATCGT TGATAAGAAC GATAGGGATA ACAGGCAAGC TTTTGATGGA	180
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTT CAGACTTTAT CAATAAGAGC AATGATTTAA TCAACAAAGA CGCTCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTCAG AAATTTGGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATAACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 95:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 449 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 95:

ATGACTAACG AAACCATTAA CCAACAAACCA CAAACCGAAG CGGCTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT GGCTTTCTT AAAGTTGATA ACGCTGTCGC TTCATACGAT	120
CCTGATCAAA AACCAATCGT TGATAAGAAC GATAGGGATA ATAGGCAAGC TTTTGATGGA	180
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTTT CAGACTTTAT CAATAAGAGC AATGATTTAA TCAACAAAGA CGCTCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTCAG AAATTTGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTCATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 96:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 96:

ATGACTAACG AAACCATTAA CCAACAAACCA CAAACCGAAG CGGCTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT GGCTTTCTT AAAGTTGATA ACGCTGTCGC TTCATACGAT	120
CCTGATCAAA AACCAATCGT TGATAAGAAC GATAGGGATA ACAGGCAAGC TTTTGATGGA	180

ATCTCGCAAT TAAGGGAAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTTT CAAACTTTAT CAATAAGAGC AATGATCTAA TCAACAAAGA CAATCTCATT	300
GATGTAGAAT CTTCCAAAAA GAGCTTCAG AAATTTGGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 97:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 97:

ATGACTAACG AAACCATTAA CCAACAAACCA CAAACCGAAG CGGCTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT AGCTTTCTT AAAGTTGATA ACGCTGTCGC TTCATACGAT	120
CCTGACCAAA AACCAATCGT TGATAAGAAC GATAAGGATA ACAGGCAAGC TTTTGATAGA	180
ATCTCACAAT TAAGGGAGGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTTT CAGACTTTAT CGATAAGAGC AACGATTAA TCAACAAAGA CGCTCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTCAG AAATTTGGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 98:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 98:

ATGACTAACG AAACCATTAA CCAACAACCA CAAACCGAAG CGGCTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT GGCTTTCTT AAAGTTGATA ACGCTGTCGC TTCATACGAT	120
CCTGATCAAA AACCAATTAT TGATAAGAAC GATAGGGATA ACAGGCAAGC TTTTGATGGA	180
ATCTCGCAAT TAAGGGAAGA ATATTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTT CAGACTTTAT CGATAAGAGC AATGATTAA TCAACAAAGA CAATCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTCAG AAATTTGGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 99:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 449 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 99:

ATGACTAACG AAACCATTAA CCAACAACCA CAAACCGAAG CGGCTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT AGCTTTCTT AAAGTTGATA ATGCTGTCGC TTCATACGAT	120
TCTGATCAAA AACCAATCAT TGATAAGAAC GATAGGGATA ACAGGCAAGC TTTTGATAGA	180
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTT CAGACTTTAT CGATAAGAGC AACGATTAA TCAACAAAGA CAATCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTCAG AAATTTGGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAATGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 100:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 100:

ATGACTAACG AAACTATTGA CCAACAAACCA CAAACCGAAG CGGCTTTAA CCCGCAGCAA	60
TTTATTAATA ATCTTCAGGT AGCTTTCTT AAGCTTGATA ACGCTGTCGC TTCATTTGAT	120
CCTGATCAAA AACCAATCGT TGATAAGAAT GATAGGGATA ACAGGCAAGC TTTTGATGGA	180
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTT CAGACTTTAT CAATAAGAGC AATGATTAA TCAACAAAGA CGCTCTCATT	300
GATGTTAGAAT CTTCCACAAA GAGCTTCAG AAATTGGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCAAAT	420
TTTATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 101:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 101:

ATGACTAACG AAACTATTGA CCAACAAACCA CAAACTGAAG CGGCTTTAA CCCGCAGCAA	60
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TTTATCAATA ATCTTCAAGT GGCTTTCTT AAGCTTGATA ACGCTGTCGC TTCATTTGAT	120
CCTGATCAAA AACCAATCGT TGATAAGAAC GATAGGGATA ACAGGCAAGC TTTGATGGA	180
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTT CAGACTTTAT CAATAAGAGC AATGATTTAA TCAACAAAGA CGCTCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTCAG AAATTTGGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 102:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 102:

ATGACTAACG AAACTATTAA CCAACAGCCA CAAACCGAAG CGGCTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT AGCTTTCTT AAGCTTGATA ACGCTGTCGC TTCATTTGAT	120
CCTGATCAAA AACCAATCGT TGATAAGAAC GATAGGGATA ATAGGCAGGC TTTGATGGA	180
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTT CAGACTTTAT CAATAAGAGC AATGATTTAA TCAACAAAGA CAATCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTCAG AAATTTGGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 103:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 103:

ATGACTAACG AAACCATTAA CCAACAACCA CAAACCGAAG CGGCTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT GGCTTTCTT AAGCTTGATA ATGCTGTTGC TTCATTTGAT	120
CCTGATCAAA AACCAATCGT TGATAAGAAC GATAGGGATA ACAGGCAAGC TTTTGATGGA	180
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTT CAGACTTTAT CGATAAGAGC AACGATTTAA TCAACAAAGA CAATCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTCAG AAATTTGGG ATCAGCGTTA CCGAATTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 104:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 449 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 104:

ATGACTAACG AAACCATTAA CCAACAACCA CAAACCGAAG CGGCTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT GGCTTTCTT AAGCTTGATA ACGCTGTCGC TTCATACGAT	120
CCTGATCAAA AACCAATCGT TGATAAGAAC GATAGGGATA ATAGGCAAGC TTTTGATGGA	180
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTT CAGACTTTAT CAATÄAGAGC AATGATTAA TCAACAAAGA CGCTCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTCAG AAATTTGGG ATCAGCGTTA CCGAATTTC	360

ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTCATGGAAA ATATCATACA ACCCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 105:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 105:

ATGACTAACG AAACTATTGA TCAACAAACCA CGAACCGAAG CGGCTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT AGCTTTCTT AAAGTTGATA ACGTTGTCGC TTCATTTGAT	120
CCTAACCAAA AACCAATCGT TGATAAGAAC GATAGGGATA ACAGGCAAGC TTTTGATGGA	180
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTGC CAAAAAGAAT	240
CAGTATTTT CAGACTTTAT CAATAAGAGC AATGATCTAA TCAACAAAGA CAATCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTCAG AAATTGGGG ATCAGCGTTA CCAAATTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTCATGGAAA ATATCATACA ACCCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 106:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 106:

ATGACTAACG AAACCATTAA CCAACAAACCA CAAACCGAAG CGGCTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT GGCTTTATT AAAGTTGATA ATGTTGTCGC TTCATTTGAT	120
CCTGATCAAA AACCAATCGT TGATAAGAAT GATAGGGATA ATAGGCAAGC TTTTGAGAAA	180
ATCTCGCAGC TAAGGGAGGA ATTGCTAAT AAAGCGATCA AAAATCCTGC CAAAAAGAAT	240
CAGTATTTT CAAGCTTAT CAGTAAGAGC AGTGATTAA TCAACAAAGA CAGTCTCATT	300
GATACAGGTT CTTCCATAAA GAGCTTCAG AAATT <sup>T</sup> GGGA CTCAGCGTTA CCAAATTTT	360
ATGAATTGGG TGTCCCATCA AAAAGATCCA TCTAAAATCA ACACCCAAAA AATCCGAGGT	420
TTTATGGAAA ATATCATAACA ACCCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 107:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 464 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 107:

ATGACTAACG AAACATATTGA TCAAACAAGA ACACCAGACC AAACACAAAG CCAAACAGCT	60
TTTGATCCGC AACAAATTAT CAATAATATT CAAGTGGCTT TTCTTAAAGT TGATAACGCT	120
GTCGCTTCAT TTGATCCTGA TCAAAAACCA ATCGTTGATA AGAATGATAG GGATAACAGG	180
CAAGCTTTG AGAAAATCTC GCAGCTAAGG GAGGAATTG CTAATAAAGC GATCAAAAT	240
CCTGCCAAAA AGAACAGTA TTTTCAAGC TTTATCAGTA AGAGCAGTGA TTTAGTCAAC	300
AAAGACAGTC TCATTGATAC AGGTTCTTCC ATAAAGAGCT TTCAGAAATT TGGGACTCAG	360
CGTTACCAAA TTTTATGAA TTGGGTGTCC CATCAAAAAG ATCCATCTAA AATCAACACC	420
CAAAAAATCC AAGATTTAT GGAAAATATC ATACAACCCC CTAT	464

(2) INFORMATION FOR SEQ ID NO: 108:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 464 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 108:

ATGACTAATG AAACCATTGA TCAAACAACA ACACCAGATC AAACACCAAA TCAAACAGAT	60
TTTGTCCGC AACGATTAT CAATAATCTT CAAGTAGCTT TTATTAAGT TGATAACGCT	120
GTCTCTTCAT TTGATCCTGA TCAAAAACCA ATCGTTGATA AGAATGATAG GGATAACAGG	180
CAAGCTTTG AGAAAATCTC GCAACTAAGG GAAGAATACG CCAATAAACG GATCAAAAT	240
CCTGCCAAAA AGAATCAGTA TTTTCAGAC TTTATCAATA AGAGCAATGA TTTGATCAAC	300
AAAGACAATC TCATTGCTGT AGATTCTTCC GTAGAGACCT TTAAGAAATT TGGGGATCAG	360
CGTTACCAAA TTTTACGAA TTGGGTGTCC CTTCAAAAAG ATCCGTCTAA AATCAACACC	420
CGACAAATCC GAAATTTAT GGAAAATATC ATACAACCCC CTAT	464

(2) INFORMATION FOR SEQ ID NO: 109:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 464 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 109:

ATGACTAACG AAACCATTGA TCAAACAACA ACACCAGATC AAACACCAAA CCAAACGGAT	60
TTTGTCCGC AACGATTAT CAATAATCTT CAAGTAGCTT TCCTTAAGT TGATAGCGCT	120
GTCGCTTCAT TTGATCCTGA TCAAAAACCA ATCGTTGATA AGAATGATAG GGATAACAGG	180
CAAGCTTTG AGAAAATCTC GCAACTAAGG GAAGAATACG CCAATAAACG GATCAAAAT	240

CCTGCCAAAA AGAACATCAGTA TTTTCAGAC TTTATCAATA AGAGCAATGA TTTGATCAAC	300
AAAGACAATC TCATTGCTGT AGATTCTTCT GTAGAGAGCT TTAAGAAATT TGGGGATCAG	360
CGTTACCAAA TTTTACGAG TTGGGTGTCC CTTCAAAAAG ATCCGTCTCA AATCAACACC	420
CGACAAATCC GAAATTTAT GGAAAATATC ATACAACCCC CTAT	464

(2) INFORMATION FOR SEQ ID NO: 110:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 464 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 110:

ATGACTAACG AAACCATTGA TCAAACAACA ACACCAAGATC AAACACCAAG CCAAACAGAT	60
TTTGTTCGC AACGATTAT CAATAATCTT CAAGTAGCTT TTCTTAAAGT TGATAACGCT	120
GTCGCTTCAT TTGATCCTGA TCAAAACCA ATCGTTGATA AGAATGATAG GGATAACAGG	180
CAAGCTTTG AGAAAATCTC GCAACTAAGG GAAGAATACG CCAATAAAGC GATCAAAAAT	240
CCTGCCAAAA AGAACATCAGTA TTTTCAGAC TTTATCAATA AGAGCAATGA TTTGATCAAC	300
AAAGACAATC TCATTGCTGT AGATTCTTCC GTAGATAGCT TTAAGAAATT TGGGGATCAG	360
CGTTACCAAA TTTTACGAG TTGGGTGTCC CTTCAAAAAG ATCCGTCTAA AATCAACACC	420
CAACAAATCC GAAATTTAT GGAAAATATC ATACAACCCC CTAT	464

(2) INFORMATION FOR SEQ ID NO: 111:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 464 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 111:

ATGACTAACG AAACCATTGA TCAAACAACA ACACCAGATC AAACACCAAA TCAAACAGAT	60
TTTGTTCGC AACGATTAT CAATAATCTT CAAGTAGCTT TTATTAAAGT TGATGACGCT	120
GTCGCTTCAT TTGATCCCGA TCAAAAACCA ATCGTTGATA AGAATGATAG GGATAACAGG	180
CAAGCTTTG AGAAAATCTC GCAACTAAGG GAAGAATACG CCAATAAAGC GATCAAAAT	240
CCCACCAAAA AGAATCAGTA TTTTCAGAC TTTATCAATA AGACCAATGA TTTGATCAAC	300
AAAGACAATC TCATTGCTGT AGATTCTTCC GTAGAGAGCT TTAAGAAATT TGGGGATCAG	360
CGTTACCAAA TTTTACGAG TTGGGTGTCC CTTCAAAAAG ATCCGTCTAA AATCAACACC	420
CAACAAATCC GAAATTTAT GGAAAATATC ATACAACCCC CTAT	464

(2) INFORMATION FOR SEQ ID NO: 112:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 464 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 112:

ATGACTAACG AAACCATTGA TCAAACAACA ACACCAGATC AAACACCAAA TCAAACAGAT	60
TTTGTTCGC AACGATTAT CAATAATCTT CAAGTAGCTT TTATTAAAGT TGATAACGCT	120
GTTGCTTCAT TTGATCCCGA TCAAAAACCA ATCGTTGATA AGAATGATAG GGATAACAGG	180
CAAGCTTTG AGAAAATCTC GCAACTAAGG GAAGAATACG CCAATAAAGC GATCAAAAT	240
CCTGCCAAAA AGAATCAGTA TTTTCAGAC TTTATCAATA AGAGCAATGA TTTGATCAAC	300
AAAGACAATC TCATTGCTGT AGATTCTTCC GTAGATAGCT TTAAGAAATT TGGGGATCAG	360
CGTTACCAAA TTTTACGAG TTGGGTGTCC CTTCAAAAAG ATCCGTCTCA AATCAACACC	420
CAACAAATCC AAAATTTAT GGAAAATATC ATACAACCCC CTAT	464

(2) INFORMATION FOR SEQ ID NO: 113:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 464 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 113:

ATGACTAACG AAACCATTGA TCAAACAACA ACACCAGATC AAACACTAAA CCAAACGGAT	60
TTTGTCCGC AACGATTAT CAATAATCTT CAAGTAGCTT TTATTAAGT TGATAACGCT	120
GTCGCTTAT TTGATCCCGA TCAAAAACCA ATCGTTGATA AGAATGATAG GGATAACAGG	180
CAAGCTTTG AGAAAATCTC GCAACTAAGG GAAGAATACG CCAATAAAGC GATCAAAAT	240
CCCACCAAAA AGAATCAGTA TTTTCAGAC TTTATCAATA AGAGCAATGA TTTGATCAAC	300
AAAGACAATC TCATTGCTGT AGATTCTCC GTAGATAGCT TTAAGAAATT TGGGGATCAG	360
CGTTACCAAA TTTTACGAG TTGGGTGTCC CTTCAAAAAG ATCCGTCTCA AATCAACACC	420
CGACAAATCC GAAATTTAT GGAAAATATC ATACAACCCC CTAT	464

(2) INFORMATION FOR SEQ ID NO: 114:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 464 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 114:

ATGACTAACG AAACCATTGA TCAAACAATA ACACCAGATC AAACACCAAA CCAAACGGAT	60
TTTGTCCGC AACGATTAT CAATAATCTT CAAGTAGCTT TTATCAAGT TGATAACGCT	120

GTCGCTTCAT TTGATCCTGA TCAAAAACCA ATCGTTGATA AGAATGATAG GGATAACAGG	180
CAAGCTTTG AGAAAATCTC GCAATTAAGG GAAGAATA <sup>C</sup> G CCAATAAAGC GATCAAAAT	240
CCTGCCAAAA AGAACATCAGTA TTTTTAGAC TTTATCAATA AGAGCAATGA TTTGATCAAC	300
AAAGACAATC TCATTGCTGT AGATTCTTCC GTAGATAGCT TTAAGAAATT TGGGGATCAG	360
CGTTACCAA A TTTTACGAG TTGGGTGTCC CTTCAAAAAG ATCCGTCTAA AATCAACACC	420
CAACAAATCC GAAATTTAT GGAAAATATC ATACAACCCC CTAT	464

(2) INFORMATION FOR SEQ ID NO: 115:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 132 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 115:

CCCTATTATC TCTCTCGCTC TAGTGGGGT GTTAATGGGT ACCGAACTAG GGGCTAACAC	60
GCCAAACGAT CCCATACACA GCGAGAGTCG CGCCTTTTT ACAACCGTGA TCATTCCAGC	120
CATTGTTGGG GG	132

(2) INFORMATION FOR SEQ ID NO: 116:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 132 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 116:

CCCTATTATC TCTCTCGCTC TAGTGGGGT GTTAATGGGT ACCGAACTAG GGGCTAACAC	60
GCCAAACGAT CCCATACACA GCGAGAGTCG CGCCTTTTC ACAACCGTGA TCATTCCAGC	120
CATTGTTGGA GG	132

(2) INFORMATION FOR SEQ ID NO: 117:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 132 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 117:

CCCTATTATC TCTCTCGCTC TAGTGGGGT GTTAATGGGC ACCGAACTAG GGGCTAATAC	60
GCCAAACGAT CCCATACACA GCGAGAGTCG CGCCTTTTC ACAACCGTGA TCATTCCAGC	120
CATTGTTGGG GG	132

(2) INFORMATION FOR SEQ ID NO: 118:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 132 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 118:

CCCTATTATC TCTCTCGCTC TAGTGGGGT GTTAATGGGC ACCGAACTAG GGGCTAATAC	60
GCCAAACGAT CCCATACACA GCGAGAGTCG CGCCTTTTC ACAACCGTGA TCATTCCAGC	120
CATTGTTGGG GG	132

(2) INFORMATION FOR SEQ ID NO: 119:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 132 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 119:

CCCTATTATC TCTCTCGCTC TAGTGGGGT GTTAATGGC ACTGAACTAG GGGCTAACAC	60
GCCAAACGAT CCCATACACA GCGAGAGTCG CGCCTTTT ACAACCGTGA TCATTCCAGC	120
CATTGTTGGG GG	132

(2) INFORMATION FOR SEQ ID NO: 120:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 132 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 120:

CCCTATTATC TCTCTCGCTC TAGTGGGGT GTTAATGGC ACCGAACTAG GGGCTAACAC	60
GCCAAATGAT CCCATACACA GCGAGAGTCG CGCCTTTTC ACAACYGTGA TCATTCCAGC	120
CATTGTTGGG GG	132

(2) INFORMATION FOR SEQ ID NO: 121:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 132 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 121:

CCCTATTATC TCTCTCGCTT TAGTGGGGT RTTAATGGGC ACCGAACTAG GGGCTAACAC	60
GCCAAACGAT CCCATACACA GCGAGAGTCG CGCCTTTTC ACAACCGTGA TCATTCCAGC	120
CATTGTTGGG GG	132

(2) INFORMATION FOR SEQ ID NO: 122:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 122:

CCCTATTATT TCTCTCGCTT TAGTGGGGT GTTAATGGGC ACCGAACTAG GGGCTAACAC	60
GCCAAACGAT CCCATACACA GCGAGAGTCG CGCCTTTTT ACAACCGTGA TCATTCCAGC	120
CATTGTTGGG GG	132

(2) INFORMATION FOR SEQ ID NO: 123:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 123:

CCCTATTATC TCTCTCGCTC TAGTGGGGC ATTAATGAGT ACCGAAC TAG GGGCTAACAC	60
GCCAAATGAT CCCATACACA GCGAGAGTCG CGCCTTTT ACAACCGTGA TCATTCCAGC	120
CATTGTTGGG GG	132

(2) INFORMATION FOR SEQ ID NO: 124:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 132 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 124:

CCCTATTATC TCTCTCGCTT TAGTGGGGT ATTAATAGGC ACCGAAC TAG GGGCTAATAC	60
GCCAAATGAT CCCATACACA GCGAGAGTCG TGCTTTTC ACAACCGTGA TCATTCCAGC	120
CATTGTTGGG GG	132

(2) INFORMATION FOR SEQ ID NO: 125:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 132 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 125:

CCCTATTATC TCTCTCGCTC TAGTGGGGT GTTAATAAGC ACCGAAC TAG GGGCTAACAC	60
GCCAAATGAT CCCATACACA GCGAGAGTCG CGCCTTTTC ACAACGGGA TCATTCCAGC	120

CATTGTTGGG GG

132

(2) INFORMATION FOR SEQ ID NO: 126:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 126:

CCCTTTAGTT TCTCTCGCTT TAGTGGGGTT ATTGGTCAGC ATCACACCCAC AAAAAAGTCA 60

TGCTGCCCTTC TTTACAACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 127:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 127:

CCCTTTAGTT TCTCTCGCTT TAGTGGGGTT ATTGGTCAGC ATCACACCCAC AAAAAAGTCA 60

TGCTGCCCTTC TTTACAACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 128:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 128:

CCCTTTAGTT TCTCTCGCTT TAGTGGGTT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60

TGCTGCCTTC TTTACAACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 129:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 129:

CCCTCTAGTT TCTCTCGCTT TAGTGGGTT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60

TGCCGCCTTC TTTACAACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 130:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 130:

CCCTCTAGTT TCTCTCGCTT TAGTGGGTT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60

TGCCGCCTTC TTTACAACCG TGATCATTCC ADCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 131:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 131:

CCCTTAGTT TCTCTCGCTT TAGTGGGTT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60

TGCCGCCTTC TTTACAACCG TGATCATTCC GGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 132:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 132:

CCCTTAGTT TCTCTCGCTT TAGTGGGTT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60

TGCCGCCTTC TTTACAACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 133:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 133:

CCCTTAGTT TCTCTCGCTT TAGTGGGCT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60

TGCCGCCTTC TTTACAACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 134:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 134:

CCCTTAGTT TCTCTCGCTT TAGTGGGTT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60

TGCCGCCTTT TTCACAACCG TGATCATTCC GGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 135:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 135:

CCCTTAGTT TCTCTCGCTT TAGTGGGCT ATTGGTCAGC ATCACACCGC AAAAAAGTCA	60
TGCCGCCTTC TTTACAACCG TGATTATCCC GGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 136:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 136:

CCCTTAGTT TCTCTCGCTT TAGTGGGCT ATTGGTCAGC ATCACACCCAC AAAAAAGTCA	60
TGCCGCCTTT TTTACAACCG TGATCATTCC AGCCATTGTT GGGAG	105

(2) INFORMATION FOR SEQ ID NO: 137:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 137:

CCCTTAGTT TCTCTCGCTT TAGTGGGCT ATTGGTCAGC ATCACACCCAC AAAAAAGTCA	60
TGCCGCCTTT TTTACAACCG TGATCATTCC AGCCATTGTT GGAGG	105

(2) INFORMATION FOR SEQ ID NO: 138:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 138:

CCCTCTGGTA TCTCTCGCTT TAGTGGGCT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60

TGCCGCCTTC TTTACAACCG TGAATATTCC AGCMATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 139:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 139:

CCCTCTGGTT TCTCTCGCTT TAGTGGGCT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60

TGCCGCCTTT TTCACAACCG TGATCATTCC GGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 140:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 140:

CCCTCTGGTT TCTCTCGCTT TAGTGGGGCT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60

TGCCGCCTTC TTTACAACCG TGATCATTCC AGCMATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 141:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 141:

CCCTCTGGTT TCTCTCGCTT TAGTGGGGCT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60

TGCCGCCTTC TTTACAACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 142:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 142:

CCCTCTGGTT TCTCTCGCTT TAGTGGGGCT ATTGGTCAGC ATCACACCCAC AAAAAAGTCA 60

TGCCGCCTTC TTTACAACCG TGATCATTCC AGCHATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 143:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 143:

CCCTCTGGTT TCTCTCGCTT TAGTGGGCT ATTGGTCAGC ATCACACCA	60
TGCCGCCTTC TTTACAACCG TGATCATTCC AGCYATTGTT GGAGG	105

(2) INFORMATION FOR SEQ ID NO: 144:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 144:

CCCTCTGGTT TCTCTCGCTT TAGTGGGTT ATTGGTCAGC ATCACACCGC	60
TGCCGCCTTC TTTACAACCG TGATCATTCC AGCCATTGTT GGAGG	105

(2) INFORMATION FOR SEQ ID NO: 145:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 145:

CCCTTTAGTT TCTCTCGCTT TAGTGGGTT ATTGGTTAGC ATCACACCGC AAAAAAGTCA	60
TGCCGCCTT TTCACAACCG TGATTATTCC AGCCATTGGT TGGGG	105

(2) INFORMATION FOR SEQ ID NO: 146:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 146:

CCCTCTGGTT TCTCTCGCTT TAGTGGGCT ATTGGTCAGC ATCACACCAC AAAAAAGTCA	60
TGCCGCCTTC TTTACAACCG TGATCATTCC AGCCATCGTT CCCCC	105

(2) INFORMATION FOR SEQ ID NO: 147:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 147:

CCCTTTAGTT TCTCCTGTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AACAAAGTCA	60
TGCCGCCTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 148:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 148:

CCCTTTAGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGT GCCATACCGC AAGAAAGTCA 60

TGCCGCCTTT TTTACAACCG TAATCATTCC AGCTATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 149:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 149:

CCCTTTAGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AAGAGAGTCA 60

TGCCGCCTTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 150:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 150:

CCCTTAGTT TCTCTCGTT TAGCAGGAGC GTTTATTAGC GCCATACCGC AAGAGAGTCA	60
TGCCGCCTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 151:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 151:

CCCTTAGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AAGAAAGTTA	60
TGCCGCCTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 152:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 152:

CCCTTAGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AACAAAGTCA	60
TGCCGCCTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 153:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 153:

CCCTATTATT TCTCTCGTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AAGAAAGTCA 60

TGCCGCCTTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 154:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 154:

CCCTTAGTT TCTCTCGTT TAGCAGNAGC GTTNATTAGT GCCATACCGC AANANAGTCA 60

TGCCGCCTTT TTCACNACCG TNATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 155:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 155:

CCCTTGGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AACAAAGTCA 60

TGCCGCCTT TTCACAACCG TGATCATTCC AGCCATTGTG GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 156:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 156:

CCCTTAGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AACAAAGTCA 60

TGCCGCCTT TTCACAACCG TGATCATTCC AGCCATTGTG GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 157:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 157:

CCCTTAGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AACAAAGTCA 60

TGCCGCCTT TTCACAACCG TGATCATTCC AGCCATTGTG GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 158:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 158:

CCCTTTAGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AACAAAGTCA	60
TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 159:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 159:

CCCTTTAGTT TCTCTTGTTC TAGCAGGAGC GTTGATTAGC GCCATACCGC AACAAAGTCA	60
TGCCGCCTTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 160:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 160:

CCCTTTAGTT TCTCTGTTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AACAAAGTCA 60  
TGCCGCCTTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 161:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 161:

CCCTTGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AACAAAGTCA 60  
TGCCGCCTTT TTCACAACCG TGATCATTCC AGCVATTGTG GGGAG 105

(2) INFORMATION FOR SEQ ID NO: 162:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 162:

CCCTTTAGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AAGAGAGTCA 60  
TGCCGCCTTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 163:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 163:

CCCTTTAGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGT GCCATACCGC AAGAGAGTCA 60

TGCCGCCTTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 164:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 164:

CCCTTTAGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGT GCCATACCGC AAGAGAGTCA 60

TGCCGCCTTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 165:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 165:

CCCTTTAGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGT GCCATACCGC AAGAGAGTCA	60
TGCCGCCTTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 166:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 166:

CCCTTTAGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGT GCCATACCGC AAGAGAGTCA	60
TGCCGCCTTT TTCACAACCG TGATCATTCC ARCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 167:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 167:

CCCTTTAGTT TCTCTGTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AAGAGAGTCA	60
TGCCGCCTTT TTCACAACCG TAATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 168:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 168:

CCCTTTAGTT TCTCTTGT <sup>TTT</sup> TAGCAGGAGC GTTGATTAGC GCCATACCGC AAGAGAGTCA	60
TGCCGCCT <sup>TTT</sup> TTCACGACCG TAATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 169:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 169:

CCCTTTAGTT TCTCTCGT <sup>TTT</sup> TAGCAGGAGC GTTGATTAGC GCCATACCGC AAGAGAGTCA	60
TGCCGCCT <sup>TTT</sup> TTCACAACCG TNATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 170:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 170:

CCCTTTGGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AAGAGAGTCA	60
TGCCGCCTTT TTCACACCCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 171:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 171:

CCCTTTGGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AAGAGAGTCA	60
TGCCGCCTTT TTCACAAACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 172:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 172:

CCCTTTGGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AAGAGAGTCA	60
TGCCGCCTTT TTCACAAACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 173:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 173:

CCCTTGGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AAGAGAGTCA	60
TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 174:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 174:

CCCTTAGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AAGAGAGTCA	60
TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 175:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 175:

CCCTTAGTT TCTCTCGTT TAGCANNAGC GTTGATTAGC RCCATACCGC AAGAGAGTCA	60
TGCCGCCTTT TTTACAACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 176:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 176:

CCCTTAGTT TCTCTGTAGTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AACAAAGTCA	60
TGCCGCCTTT TTCACGACCG TNATCATTCC AGCCATTGTT NNNNG	105

(2) INFORMATION FOR SEQ ID NO: 177:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 177:

CCCTCTGGTT TCTCTGGTT TAGCAGGAGC GTTGATTAGC ATCACACCAC AACAAAGTCA	60
--	----

TGCCGCCTTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG

105

(2) INFORMATION FOR SEQ ID NO: 178:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 178:

CCCTCTGGTT TCTCTCGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA 60

TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 179:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 179:

CCCTCTGGTT TCTCTCGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA 60

TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 180:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 180:

CCCTCTGGTT TCTCTCGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA	60
TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGAGG	105

(2) INFORMATION FOR SEQ ID NO: 181:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 181:

CCCTCTGGTT TCTCTCGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA	60
TGCCGCCTTT TTTACAACCG TGATCATTCC AGCCATTGTT GGAGG	105

(2) INFORMATION FOR SEQ ID NO: 182:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 182:

CCCTTGTT TCTCTCGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA	60
---	----

TGCCGCCTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG

105

(2) INFORMATION FOR SEQ ID NO: 183:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 183:

CCCTCTGGTT TCTCTTGCTT TAGTAGGAGC GTTAGTCAGC ATCACACCGC AACAAAGTCA

60

TGCCGCCTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGG

105

(2) INFORMATION FOR SEQ ID NO: 184:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 184:

CCCTCTAGTT TCTCTCGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA

60

TGCCGCCTT TTCACAACCG TGATCATTCC AGCCATTGTG GGGGG

105

(2) INFORMATION FOR SEQ ID NO: 185:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 185:

CCCTTTAGTT TCTCTTGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA 60

TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 186:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 186:

CCCTCTNGTT TCTCTCGCTT TAGTAGNAGC ATTNGTCAGC ATCACACCGC AACANAGTCA 60

TGCCGCCTTT TTCACAACCG TNATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 187:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 187:

CCCTCTGGTT TCTCTCGCTT TAGTAGGAGC GTTGGTCAGC ATCACACCGC AACAAAGTCA 60

TGCCGCCTTT ATTACAACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 188:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 188:

CCCTCTGGTT TCTCTTGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA 60

TGCCGCCTTT TTTACAACCG TGATTATTCC AGCCATTGTG GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 189:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 189:

CCCTCTGGTT TCTCTTGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA 60

TGCCGCTCTT TTTACAACCG TGATTATTCC AGCCATTGTG GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 190:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 190:

CCCTCTGGTT TCTCTTGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA 60

TGCCGCTCTT TTTACAACCG TGATTATTCC AGCCATTGTG GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 191:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 191:

CCCTCTGGTT TCTCTCGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA 60

TGCCGCTCTT TTTACAACCG TGATTATTCC AGCCATTGTG GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 192:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 192:

CCCTYTGGTT TCTCTTGCTT TAGTAGGAGC ATTGRTTAGY RYCAYACCGC AACAAAGTCA	60
TGCCGCCTTT TTYACRACCG TGATCATTCC AGCCATTGTT GGRGG	105

(2) INFORMATION FOR SEQ ID NO: 193:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 193:

CCCTATTATC TCTCTCGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA	60
TGCCGCCTTT TTCACAACCG TGTCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 194:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 194:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATATTATC TGGGAAAATC CACGAATT	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCACAAAGAG CGATAACGG	120
CTAAACACTA GCACCTTGGG TTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCT	180
ACTACATCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT AGTGGTTAC	240
ACCCGTGTTG AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300

CGCATTGGTG TCGTTAGTTT GCAAACCTGGC TATAGCCCGG CCTATTCTGG GGGCGTTACT 360

TT 362

(2) INFORMATION FOR SEQ ID NO: 195:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 195:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATATTTATC TGGGAAAATC CACGAATTAA 60

AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCACAAAGAG CGATAACGGG 120

CTAAACACTA GTGCTTGGA TTTGAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC 180

ACTACATCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT AGTGGTTACA 240

ACCCGTGTC AGAGTTTGG GCAATACACT ATTTTGCGC AAAATATAGG CGATAAGTCG 300

CACATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT 360

TT 362

(2) INFORMATION FOR SEQ ID NO: 196:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 196:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATATTTATC TGGGAAAATC CACGAATTAA 60

AGAGTGAATG	GCCATAGCGC	TCATTTAAA	AATATTGATG	CCACAAAGAG	CGATAACGGG	120
CTAAACACTA	GCGCTTGGA	TTTGAGCGGC	GTTACAGACA	AAGTCAATAT	CAACAAGCTC	180
ACTACATCTG	CCACTAATGT	GAACGTTAAA	AACTTTGACA	TTAAGGAATT	GGTGGTTACA	240
ACCCGAGTTC	AAAGTTTGG	GCAATACACT	ATTTTGGCG	AAAATATAGG	CGATAAGTCG	300
CGCATTGGTG	TCGTTAGTT	GCAAACGGGA	TATAGCCCGG	CCTATTCTGG	GGGCGTTACT	360
TT						362

(2) INFORMATION FOR SEQ ID NO: 197:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 197:

GTGGATGCTC	ATACAGCTTA	TTTTAATGGC	AATATTATC	TGGGAAAATC	CACGAATTAA	60
AGAGTGAATG	GCCATAGCGC	TCATTTAAA	AATATTGATG	CCACAAAGAG	CGATAACGGG	120
CTAAACACTA	GCGCTTGGA	TTTGAGCGGC	GTTACAGACA	AAGTCAATAT	CAACAAGCTC	180
ACTACATCTG	CCACTAATGT	GAACGTTAAA	AACTTTGACA	TTAAGGAATT	GGTGGTTACA	240
ACCCGAGTTC	AAAGTTTGG	GCAATACACT	ATTTTGGCG	AAAATATAGG	CGATAAGTCG	300
CGCATTGGTG	TCGTTAGTT	GCAAACGGGA	TATAGCCCGG	CCTATTCTGG	GGGCGTTACT	360
TT						362

(2) INFORMATION FOR SEQ ID NO: 198:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 198:

GTGGATGCTC ATACAGCTTA TTTTAATGGT AATATTATC TGGGAAAATC CACGAATTTA	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCACAAAGAG CGATAACGGG	120
CTAAACACTA GCGCTTTGGA TTTCAGCGGC GTTACAGATA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAACGT GAACATTAAA AACTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGCGC AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 199:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 199:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATATTATC TGGGAAAATC CACGAATTTA	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG	120
CTAAACACTA GCACCTTGGA TTTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAACGT GAACGTTAAA AACTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGCGC AAAATATAGG CGATCAGTCT	300
CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCGG CTTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 200:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 200:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATATTATC TGGGAAAATC CACGAATTAA	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CTAGTAAGAG CGATAACGGG	120
CTAAACACTA GCGCTTTGGA TTTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGCGC AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 201:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 2 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 201:

WC

2

(2) INFORMATION FOR SEQ ID NO: 202:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 202:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATGTTATC TGGGAAAATC CACGAATTAA	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGCAAGAG CGATAACGGG	120
CTAAACACTA GTGCTTGGA TTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT AGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 203:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 203:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATGTTATC TGGGAAAATC CACGAATTAA	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGCAAGAG CGATAACGGG	120
CTAAACACTA GTGCTTGGA TTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT AGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300

CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 204:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 204:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATGTTATC TGGGAAAATC CACGAATTAA	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGCAAGAG CGATAACGGG	120
CTAAACACTA GTGCTTTGGA TTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT AGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 205:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 205:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATGTTATC TGGGAAAATC CACGAATTAA	60
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AGAGTGAATG CCCATAGCGC TCATTTAAA AATATTGATG CCAGCAAGAG CGATAACGGG	120
CTAAACACTA GTGCTTGGA TTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACATTAAA AACCTTGACA TTAAGGAATT AGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 206:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
  
- (ii) MOLECULE TYPE: DNA (genomic)
  
- (iii) HYPOTHETICAL: NO
  
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 206:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATC TGGAAAATC CACGAATTAA	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCACAAAGAG CGATAACGGG	120
CTAAACACTA GCGCTTGGA TTTAGTGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACATTAAA AACCTTGACA TTAAGGAATT AGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCAG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 207:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
  
- (ii) MOLECULE TYPE: DNA (genomic)
  
- (iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 207:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATATTATC TGGAAAATC CACGAATTAA	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG	120
CTAACACACTA GTGCTTGGA TTTAGCGGC GTTACAGACA AAGTCATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT AGTTGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCAG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 208:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 208:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATATTATC TGGAAAATC CACGAATTAA	60
AAAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGTAAGAG CGATAATGGT	120
CTAACACACTA GCGCTTGGA TTTAGCGGC GTTACAGACA AAGTCATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT AGTGGTTACA	240
ACCCGTGTTCA AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAATGGGA TATAGCCCAG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 209:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
  
- (ii) MOLECULE TYPE: DNA (genomic)
  
- (iii) HYPOTHETICAL: NO
  
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 209:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATC TGGGAAAATC CACGAATTAA	60
AAAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG	120
CTAAACACTA GCGCTTGGA TTTGAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACAGCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT GGTTGTTACG	240
ACCCGTGTTCA AGAGTTTGG ACAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCGG CTTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 210:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
  
- (ii) MOLECULE TYPE: DNA (genomic)
  
- (iii) HYPOTHETICAL: NO
  
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 210:

GTGGATGCTC ATACAGCTAA CTTAATGGC AATATTATT TGGGAAAATC CACGAATTAA	60
AGGGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG	120
CTAAACACTA GCTCTTGGA TTTCAGTGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTGACA TTAAGGAATT GGTGGTTACA	240

ACCCGAGTTC AGAGTTTGG GCAATACACT ATTTTGCG AAATTATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 211:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 211:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATATTTATT TGGGAAAATC CACGAATTAA	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG	120
CTAAACACTA GTGCTTGGA TTTTAGCGGC GTTACAGATA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGCG AAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 212:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 212:

GTGGATGCC	ATACGGCTAA	CTTTAATGGC	AATATTATC	TGGGAAAATC	CACGAATT	60
AAAGTGAATG	GCCATAGCGC	TCATTTAAA	AATATTGATG	CCACAAAGAG	CGATAACGG	120
CTAACACTA	GCGCTTGGA	TTTGAGTGGC	GTTACAGACA	AAGTCAATAT	CAACAAGCTC	180
ACTACATCTG	CCACTAATGT	GAACATTAAA	AACTTGACA	TTAAGGAATT	AGTGGTTACA	240
ACCCGTGTT	AGAGTTTGG	GCAATACACT	ATTTTGCG	AAAATATAGG	CGATAAGTCT	300
CGCATTGGTG	TCGTTAGTTT	GCAAACGGGA	TATAGCCCGG	CCTATTCTGG	GGGC GTTACT	360
TT						362

(2) INFORMATION FOR SEQ ID NO: 213:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 213:

GTGGATGCTC	ATACAGCTTA	TTTTAATGGC	AATATTATC	TGGGAAAATC	CACGAATT	60
AAAGTGAATG	GCCATAGCGC	TCATTTAAA	AATATTGATG	CCAGTAAGAG	CGATAATGGT	120
CTAACACTA	GTGCTTGGA	TTTGAGCGGC	GTTACAGACA	AAGTCAATAT	CAACAAGCTC	180
ACTACAGCTG	CCACTAATGT	GAACATTAAA	AACTTGACA	TTAAGGAATT	AGTGGTTACG	240
ACCCGTGTT	AGAGTTTGG	GCAATACACT	ATTTTGCG	AAAATATAGG	AGATCAATCG	300
CGCATTGGTG	TCGTTAGTTT	GCAAACGGC	TATAGCCCGG	CCTATTCTGG	GGGC GTTACT	360
TT						362

(2) INFORMATION FOR SEQ ID NO: 214:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 214:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATC TGGAAAATC CACGAATTAA	60
AAAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCACTAAGAG CGATAATGGT	120
CTAAACACTA GCGCTTGGA TTTGAGCGGC GTTACAAACA AGGTCAATAT CAACAAGCTC	180
ACTACAGCTG CCACTAATGT GTCCATTAAA AACTTGACA TTAAGGAATT AGTGGTTACG	240
ACCCGTGTC AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATCAATCG	300
CGCATTGGTG TCGTTAGTTT GCAAACGGC TATAGCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 215:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 215:

GTGGATGCTC ATACGGCTAA CTTAATGGC AATGTTATC TGGAAAATC CACGAATTAA	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG	120
CTAAACACTA GCGCTTGGA TTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGTGTC AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGG TATAGCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 216:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 216:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATGTTTATC TGGGAAAATC CACGAATTAA	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGCAAGAG CGATAACGGG	120
CTAACACACTA GCGCTTTGGA TTTTAGCGGC GTTACAGATA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT AGTGGTTACA	240
ACCCGTGTTCA AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 217:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 217:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATGTTTATC TGGGAAAATC CACGAATTAA	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CTAGTAAGAG CGATAACGGG	120

CTAAACACTA GCGCTTTGGA TTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTGACA TTAAGGAATT AGTGGTTACA	240
ACCCGTGTTG AGAGTTTGG GCAATACACT ATTTTGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCAG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 218:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 218:

GTGGACGCTC ATACAGCTTA TTTAATGGC AATATTATC TGGAAAATC CACGAATTAA	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGCAAGAG CGATAACGGG	120
CTAAACACTA GCGCTTTGGA TTTCAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTGACG TTAAGGAATT GGTGGTTACA	240
ACCCGTGTTG AGAGTTTGG GCAATACACT ATTTTGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCAG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 219:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 219:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATC TGGAAAATC CACGAATT	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGCAAGAG CGATAACGG	120
CTAAACACTA GCACTTGGA TTTAGCGGC GTTACAGATA AAGTCAATAT CAACAAGCT	180
ACTACAGCTG CCACTAATGT GAACGTTAAA AACTTGACA TTAAGGAATT AGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 220:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 220:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATT TGGAAAATC CACGAATT	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGTAAGAG CGATAACGG	120
CTAAACACTA GCGCTTGGA TTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCT	180
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTGACA TTAAGGAATT AGTGGTTACA	240
ACCCGTGTT AGAGTTTGG GCAATACACT ATTTTGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 221:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 221:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATT TGGAAAATC CACGAATTAA	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG	120
CTAAACACTA GTGCTTGGA TTTAGCGGC GTTACAGATA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 222:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 222:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATT TGGAAAATC CACGAATTAA	60
AGATTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG	120
CTAAACACTA GCGCTTGGA TTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGAGTTC AGAGTTTGG GCAATACTCT ATTTTGGCG AAAATATAGG CGATAAGTCG	300

CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCGG CCTATTCTGG GGGCGTTACT 360

TT 362

(2) INFORMATION FOR SEQ ID NO: 223:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 223:

GTGGACGCTC ATACAGCTTA TTTAATGGC AATATTATT TGGGAAAATC CACGAATTAA 60

AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCACAAAGAG CGATAACGGG 120

CTAAACACTA GCACAGCGA TTTGAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC 180

ACTACATCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT AGTGGTTACG 240

ACCCGTGTC AGAGTTTGG GCAATACACT ATTTTGCG AAAATATAGG CGATAAGTCT 300

CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCGG CCTATTCTGG GGGCGTTACT 360

TT 362

(2) INFORMATION FOR SEQ ID NO: 224:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 224:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATC TGGGAAAATC CACGAATTAA 60

AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCACAAAGAG CGATAACGGG 120  
CTAACACATTA GCACCTTGGA TTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC 180  
ACTACATCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT AGTGGTTACA 240  
ACCCGTGTTG AGAGTTTGG GCAATACACT ATTTTGCG AAAATATAGG CGATAAGTCT 300  
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCGG CCTATTCTGG GGGCGTTACT 360  
TT 362

(2) INFORMATION FOR SEQ ID NO: 225:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)  
(iii) HYPOTHETICAL: NO  
(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 225:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATC TGGGAAAATC CACGAATTG 60  
AGAGTGAATG GCCATAACGC TCATTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG 120  
CTAACACACTA GCACCTTGGA TTTGAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC 180  
ACTACAGCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT AGTGGTTACG 240  
ACCCGTGTTG AGAGTTTGG GCAATACACT ATTTTGCG AAAATATAGG TGATAAGTCT 300  
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCGG CCTATTCTGG GGGCGTTACT 360  
TT 362

(2) INFORMATION FOR SEQ ID NO: 226:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)  
(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 226:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATGTTATT TGGAAAATC CACGAATTAA	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGTGAGAG CGATAACGGG	120
CTAAACACTA GCGCTTGGA TTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTGACA TTAAGGAATT GGTGGTTACG	240
ACCCGTGTT AGAGTTTGG GCAATACACT ATTTTGCGC AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTT GCAAACGGGA TGTCGCCGG CCTGTTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 227:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 227:

GGGGATGCTC ATACAGCTTA TTTAATGGC AATATTTATT TGGAAAATC CACGAATTAA	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG	120
CTAAACACTA GCGYTTGGA TTTAGCGGC GTTACAGAYA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACRTTAAA AACTTGAYA TTAAGGAATT GGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGCGC AAAATATAGG CGATMAGTCT	300
CGCATTGGTG TCGTTAGTT GCAAACGGGA TATAGCCRG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 228:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 228:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATC TGGGAAAATC CACGAATTAA	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCACAAAGAG CGATAATGGT	120
ATAAACACTA GCACCTTGGA TTTGAGCGGC GTTACAGACA AGGTCAATAT CAACAAGCTC	180
ATTACAGCTT CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGTGTC AAAGTTTGG GCAATACACT ATTTTGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 229:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 229:

GTGGATGCTC ATACGGCTAA CTTAATGGC AATATTATC TGGGAAAATC CACGAATTAA	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGCAAGAG CGATAACGGG	120
CTAAACACTA GCACCTTGGA TTTCAGTGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTGATA TTAAGGAATT GGTGGTTACA	240

ACCCGAGTTC AGAGTTTGG GCAATACACT ATTTTGCG AAAATATAGG CGATAAGTCG	300
CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCAG CTTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 230:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 230:

GTGGATGCTC ATACGGCTAA CTTTAATGGC AATATTTATT TGGGAAAATC CACGAATTG	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG	120
CTAAACACTA GCGCTTTGGA TTTTAGCGGC GTTACAGACA AAGTTAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCTG CTTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 231:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 231:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATC TGGGAAAATC CACGAATTAA  
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG 60  
CTAAACACTA CCACTTTGGA TTTCAGCGC GTTACAGATA AAGTCAATAT CAACAAGCTC 120  
ACTACATCTG CCACTAATGT GAACATTAAGAACTTGACA TTAAGGAATT AGTGGTTACA 180  
ACCCGAGTTC AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGCTG 240  
CACATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCAG CCTATTCTGG GGGGCTTACT 300  
TT 360  
362

(2) INFORMATION FOR SEQ ID NO: 232:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 232:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATC TGGGAAAATC CACGAATTAA  
AAAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CTAGTAAGAG CGATAACGGG 60  
CTAAACACTA GCGCTTGGA TTGAGCGC GTTACAAACA AGGTCAATAT CAACAAGCTC 120  
ACTACAGCTG CCACTAATGT GAACATTAAGAACTTGACA TTAAGGAATT GGTGGTTACA 180  
ACCCGCGTTC AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCG 240  
CGCATTGGTG TCGTTAGTTT GCAAACGTGC TATAGCCCAG CCTATTCTGG GGGCGTTACT 300  
TT 360  
362

(2) INFORMATION FOR SEQ ID NO: 233:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 233:

ATGGATGCTC ATACAGCTTA TTTAATGGC AATATTATC TGGAAAATC CACGAATTAA	60
AAAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCACTAAGAG CGATAATGGT	120
CTAAACACTA GCGCTTGGA TTTGAGCGGC GTTACAAACA AGGTCAATAT CAACAAGCTC	180
ACTACAGCTG CCACATAATGT GTCCATTAAA AACTTGACA TTAAGGAATT AGTGGTTACG	240
ACCCGTGTT AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATCAATCG	300
CGCATTGGTG TCGTTAGTTT GCAAACTGGC TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 234:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 234:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATC TGGAAAATC CACGAATTAA	60
AAAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCACTAAGAG CGATAATGGT	120
CTATACACTA GCGCTTGGA TTTGAGCGGC GTTACAAACA AGGTCAATAT TAACACGCTC	180
ACTACAGCTG CCACATAATGT GTCCATTAAA AACTTGACA TTAAGGAATT AGTGGTTACG	240
ACCCGTGTT AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATCAATCG	300
CGCATTGGTG TCGTTAGTTT GCAAACTGGC TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 235:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 235:

GTGGATGCC	ATACGATCAA	TTTTAATGGC	AATATGTATT	TGGGAAGATT	TACGCATT	60
AAAGTGAATG	GTCATACAGC	CAATTTAAA	GATATTGATG	CCAGCAAGGG	TAGAAATGGT	120
ATCGACACCA	CCATTTGGA	TTTAGCGGC	GTTACAAACA	AGGTCAATAT	CAACAAGCTC	180
ACCACAGCTG	CCACTAATGC	GGCCATTAAA	AATTTGACA	TTAAGGAATT	GGTTGTTACA	240
ACCAATGTTT	TGAGTGTGGG	GAAATACACT	GATTTACCG	AAGATATAGG	CGATCAATCC	300
CGCATTGGTA	TCGTGCGTTT	GCAAATGGGA	TATAGCCCGG	CCTATTCTGG	GGGC GTTACT	360
TT						362

(2) INFORMATION FOR SEQ ID NO: 236:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 236:

GTGGATGCC	ATACGATCAA	TTTTAATGGC	AATATGTATT	TGGGAAGATT	CACGCATT	60
AAAGTGAATG	GTCATACAGC	CAATTTAAA	GATATTGATG	CCAGCAAGGG	TAGAAATGGT	120

ATCGACACCA CCATTTGGA TTTAGCGGC GTTACAAACA AGGTCAATAT CAACAAGCTC	180
ACCACAGCTG CCACTAATGC GGCCATTAAA AATTTGACA TTAAGGAATT GGTTGTTACA	240
ACCAATGTT TGAGTGTGGG GAAATACACT GATTTACCG AAGATATAGG CGATCAATCC	300
CGCATTGGTA TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 237:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 237:

GTGGATGCC ATACGATCAA TTTAATGGC AACATGTATT TGGGAAGATT CACGCATTTA	60
AAAGTGAATG GCCATACAGC CAATTTAAA GATATTGATG CCAGCAAGGG TAGAAATGGT	120
ATCGACACCA CTATTTGGA TTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACAGCTG CCACTAATGT GTCCATTAAA AACTTGACA TTAAGGAATT GGTTGTTACA	240
ACCAATGTT TGAGTGTGGG GAAATACACT GATTTACCG AAGATATAGG CGATCAATCG	300
CACATTGGTG TCGTTAGTTT GCAAACGGC TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 238:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 288 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO; 238:

GTGGATGCTC ATACAGCTAA TTTAAAGGT ATTGATAACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGTGTAC AGGTAAGGTC AATATCAACA AGCTCATTAC GGCTTCCACT	120
AATGTGGCCG CTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGGTGAGT	180
GTGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTGGAAA CTGGCACTAG GTCAATCTAT TCTGGCGGTG TTAAATT	288

(2) INFORMATION FOR SEQ ID NO: 239:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 239:

GTGGATGCTC ATACAGCTAA TTTAAAGGT ATTGATAACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGTGTAC AGGTAAGGTC AATATCAACA AGCTCATCAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGTGTGAGT	180
GTGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTGGAAA CTGGCACTAG GTCAATCTTT TCTGGGGGTG TTAAATT	288

(2) INFORMATION FOR SEQ ID NO: 240:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 240:

GTGGATGCTC ATACAGCTAA TTTAAAGGT ATTGATACGG GTAATGGTGG TTTAACACC	60
TTAGATTTA GTGGTGTAC AGGTAAGGTC AATATCAACA AGCTCATCAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGGATAAGT	180
GTGGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGAAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAA CTGGCACTAG ATCAATCTTT TCTGGGGGTG TTAAATT	288

(2) INFORMATION FOR SEQ ID NO: 241:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 288 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 241:

GTGGATGCTC ATACAGCTAA TTTAAAGGT ATTGATACGG GCAATGGTGG TTTAACACC	60
TTAGATTTA GTGGCGTTAC AGACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAAACTT CAACATTAAT GAATTGTTGG TTAAGACCAA TGGGGTGAGC	180
GTGGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTTT TCTGGGGGTG TCAAATT	288

(2) INFORMATION FOR SEQ ID NO: 242:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 288 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 242:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATAACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGCGTTAC AGACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAAACTT CAACATTAAT GAATTGGTTG TTAAGACCAA TGGGGTGAGT	180
GTGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAACACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTAT TCTGGGGGTG TTAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 243:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 243:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATAACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGTGTAC AGGTAAGGTC AATATCAACA AGCTCATCAC GGCTTCCACT	120
AATGTGGCCG TTAAAAACAA CAACATTAAT GAATTGGTGG TTAAAACCAA TGGGATAAGT	180
GTGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAA CAGGCACTAG GTCAATCTTT TCTGGGGGTG TCAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 244:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 244:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGATTCTA GTGGTGTAC AAACAAAGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGGTGG TTAAGATTAA TGGGGTGAGT	180
GTGGGGAAT ACACTTATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAACACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTAT TCTGGCGGTG TTAAATT	288

(2) INFORMATION FOR SEQ ID NO: 245:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 245:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGATTCTA GTGGTGTAC AGACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAAACTT CAACATTAAT GAATTGGTGG TTAAAACCAA TGGTATAAGC	180
GTGGGGAAT ACACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAACACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTAT TCTGGCGGTG TTAAATT	288

(2) INFORMATION FOR SEQ ID NO: 246:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 246:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGATTCA GTGGTGTAC AGACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAAACTT CAACATTAAT GAATTGGTGG TTAAAACCAA TGGTATAAGC	180
GTGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTAT TCTGGCGGTG TTAAATT	288

(2) INFORMATION FOR SEQ ID NO: 247:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 247:

GTGGATGCC ATACAGCTAA TTTTAAAGGT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGATTCA GTGGCGTTAC AAACAAAGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAAACTT CAACATTAAT GAATTGGTGG TTAAAACCAA TGGTATAAGC	180
GTGGGGAAT ACACTAATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAACACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTAT TCTGGCGGTG TTAAATT	288

(2) INFORMATION FOR SEQ ID NO: 248:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 248:

GTGGATGCTC ATACAGCTAA TTTAAAGGT ATTGATAACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGTGTAC AGGTAAGGTC AATATCAACA AGCTCATCAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGGGTGAGT	180
GTGGGGAAT ACACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTGGAAA CTGGCACTAG GTCAATCTAT TCTGGCGGTG TTAAATT	288

(2) INFORMATION FOR SEQ ID NO: 249:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 249:

GTGGATGCTC ATACAGCTAA TTTAAAGGT ATTGATAACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGTGTAC AGGTAAGGTC AATATCAACA AGCTCATCAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGGGTGAGT	180
GTGGGGAAT ACACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTGGAAA CTGGCACTAG GTCAATCTAT TCTGGCGGTG TTAAATT	288

(2) INFORMATION FOR SEQ ID NO: 250:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 250:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATAACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGTGTAC AGGTAAAGTC AATATCAACA AGCTCATCAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGTGTGAGT	180
GTGGGGGAAT ACACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAACACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTAT TCTGGCGGTG TTAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 251:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 251:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATAACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGTGTAC AGGTAAAGTC AATATTAACA AGCTCATTAC GGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGGGTGAGT	180
GTGGGGGAAT ACACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTTT TCTGGGGGTG TTAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 252:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 252:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATAACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGTGTGAC AGGTATAGTC AATATCAACA AGCTCATCAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGGGTGAGC	180
GTGGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTTT TCTGGGGTG TCAAATT	288

(2) INFORMATION FOR SEQ ID NO: 253:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 253:

GTGGATGGTC ATACAGCTAA TTTTAAAGGT ATTGATAACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGTGTGTTAC AGGTAAAGGT AATATCAACA AGCTCATAAC GGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGTGTGAGT	180
GTGGGGGAAT ACACTTATT TAGCGAAGAT ATAGGCAGTC AATCGCACAT CAATACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTTT TCTGGGGTG TCAAATT	288

(2) INFORMATION FOR SEQ ID NO: 254:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 254:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATAACGG GTAATGGTGG TTTCAACACC	60
TTAGATTAA GTGGTGTAC AGGTAAGGTC AATATCAACA AGCTCATTAC GGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGTGTGAGT	180
GTGGGGAAAT ACACCTTATT TAGCGAAGAT ATAGGCAGTC AATCGCACAT CAATACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTTT TCTGGGGGTG TCAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 255:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 255:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATAACGG GTAATGGTGG TTTCAACACC	60
TTAGATTAA GTGGTGTAC AGACAAAGTC AATATCAACA AGCTCATCAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGGTTGAGT	180
GTGGGGAAAT ACACCTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAA CTGGCACCAG GTCAATCTTT TCTGGGGGTG TCAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 256:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 256:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATAACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGTGTAC AGACAAAGTC AATATCAACA AGCTCATTAC GGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGGGTGAGT	180
GTGGGGAAT ACACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTTT TCTGGGGGTG TCAAATT	288

(2) INFORMATION FOR SEQ ID NO: 257:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 288 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 257:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATAACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGTGTAC AGACAAAGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGGTTG TTAAAACCAA TGGGGTAAGT	180
GTGGGGAAT ACACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCACAT CAATACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTTT TCTGGGGGTG TCAAATT	288

(2) INFORMATION FOR SEQ ID NO: 258:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 288 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 258:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATAACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGTGTAC AAACAAGGTC AATATCAACA AGCTCATTAC GGCTTCCACT	120
AATGTGGCCA TTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGGATGAGC	180
GTGGGGAAT ACACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTTT TCTGGGGTG TCAAATT	288

(2) INFORMATION FOR SEQ ID NO: 259:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 288 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 259:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATAACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGTGTAC AAACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGGGTGAGC	180
GTGGGGAAT ACACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTTT TCTGGGGTG TCAAATT	288

(2) INFORMATION FOR SEQ ID NO: 260:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 260:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATAACGG GTAATGGTGG TTTCAACACC	60
TTAGATTCTTA GTGGTGTAC AAACAAGGTC AATATCAACA AGCTCATTAC GGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGGGTGAGC	180
GTGGGGAAT ACACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTTT TCTGGGGGTG TCAAATT	288

(2) INFORMATION FOR SEQ ID NO: 261:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 288 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 261:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATAACGG GTAATGGTGG TTTCAACACC	60
TTGGATTCTTA GTGGCGTTAC AGACAAAGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAAACTT CAACATTAAT GAATTGTTGG TTAAGACCAA TGGGGTGAGT	180
GTGGGGAAT ACACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAACACCGTG	240
CGTTTAGAAA CTGGCACTAG GTCAATCTTT TCTGGGGGTG TCAAATT	288

(2) INFORMATION FOR SEQ ID NO: 262:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 262:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATAACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGTGTTAC AGGTAAGGTC AATATCAACA AGCTCATTAC GGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGTTGG TTAAGACCAA TGGGGTGAGT	180
GTGGGGAAT ACACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTTT TCTGGGGGTG TCAAATT	288

(2) INFORMATION FOR SEQ ID NO: 263:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 263:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATAACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGTGTTAC AGGTAAGGTC AATATCAACA AGCTCATTAC GGCTTCCACT	120
AATGTAGCCG TTAAAAACTT CAACATTAAT GAATTGTTGG TTAAGACCAA TGGGGTGAGT	180
GTGGGGAAT ACACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAACACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTTT TCTGGGGGTG TCAAATT	288

(2) INFORMATION FOR SEQ ID NO: 264:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 264:

GTGGATGGTC ATACAGCTAA TTTTAAAGGT ATTGATAACGG GTAATGGTGG TTTCCACACC	60
TTAGATTTA GTGGTGTAC AGGTAAGGTC CATATCCACA AGCTCATTAC GGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CCACATTAAT GAATTGATTG GTAAAACCAA TGGGATAAGT	180
GTGGGGGAAT ACACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTTT TCTGGGGTG TCAAATT	288

(2) INFORMATION FOR SEQ ID NO: 265:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 265:

GCGAGCGCTC ATACGGTCAA TTTTAAAGAT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGTGTAC AAACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAAACTT CAACATTAAT GAATTGTTGG TTAAAACCAA TGGGATAAGT	180
GTGGGGGAAT ACACTAATT TAGCGAAGAT ATAGGCATC AATCGCGCAT CAACACCGTG	240
CGTTTGGAAA CTGGCACCAAG GTCAATCTAT TTTGGGGTG TTAAATTA	288

(2) INFORMATION FOR SEQ ID NO: 266:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 266:

GCGAGCGCTC ATACGGTCAA TTTAAAGAT ATTGATACTG GTAATGGTGG TTTAACACC	60
TTAGACTTTA GTGGTGTAC AAACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGTTGG TTAAAACCAA TGGGATAAGT	180
GTGGGGGAAT ACACTAATT TAGCGAAGAT ATAGGCAATC AATCGCGCAT CAACACCGTG	240
CGTTGGAAA CTGGCACTAG GTCAATCTAT TCTGGGGGTG TTAAATT	288

(2) INFORMATION FOR SEQ ID NO: 267:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 267:

GCGAGCGCTC ATACGGTCAA TTTAAAGAT ATTGATACTG GTAATGGTGG TTTAACACC	60
TTAGACTTTA GTGGTGTAC AAACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAAACTT CAACATTAAT GAATTGTTGG TTAAAACCAA TGGGATAAGT	180
GTGGGGGAAT ACACTAATT TAGCGAAGAT ATAGGCAATC AATCGCACAT CAACACCGTG	240
CGTTTAGAAA CTGGCACTAG GTCAATCTAT TCTGGGGGTG TTAAGTT	288

(2) INFORMATION FOR SEQ ID NO: 268:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 268:

GCGAGACGTC ATACGGTCAA TTTAAAGAT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGATTAA GTGGTGTAC AAACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAGT GAATTGTTGG TTAAAACCAA TGGGATAAGT	180
GTGGGGAAT ACACTAATT TAGCGGAGAT ATAGGCAATC AATCGCGCAT CAACACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTAT TCTGGGGTG TTAAGTTT	288

(2) INFORMATION FOR SEQ ID NO: 269:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 269:

GTGGATGCC ATACGGTCAA TTTAAAGGT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGATTCA GTGGTGTAC AGACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAAACTT CAACATTAAT GAATTGGTGG TTAAAACCAA TGGTATAAGC	180
GTGGGGAAT ACACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240

CGTTGGAAA CTGGCACTAG GTCAATCTAT TCTGGCGGTG TTAAATT

288

(2) INFORMATION FOR SEQ ID NO: 270:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 270:

GCGAGCGCTC ATACGGTCAA TTTAAAGAT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGACTTTA GTGGTGTAC AAACAAGGTC AATATCAACA AACTCATTAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGTTGG TTAAAACCAA TGGGATAAGT	180
GTGGGGGAAT ACACTAATT TAGCGAAGAT ATAGGCAATC AATCGCGCAT CAACACCGTG	240
CGTTTAGAAA CTGGCACCAAG GTCAATCTAT TCTGGGGTG TTAAGTTT	288

(2) INFORMATION FOR SEQ ID NO: 271:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 271:

GCGAGCGCTC ATACGGTCAA TTTAAAGAT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGACTTTA GTGGTGTAC AAACAAGGTC AATATCAACA AACTCATTAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGTTGG TTAAAACCAA TGGGATAAGT	180
GTGGGGGAAT ACACTAATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240

CGTTTAGAAA CTGGCACCAAG GTCAATCTAT TCTGGGGGTG TTAAGTTT

288

(2) INFORMATION FOR SEQ ID NO: 272:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 272:

GCGAGCGCTC ATACGGTCAA TTTAAAGAT ATTGATACTG GTAATGGTGG TTTAACACC	60
TTAGATTTA GTGGTGTAC AAACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAAACTT CAACATTAAT GAATTGTTGG TTAAAACCAA TGGGATAAGT	180
GTGGGGGAAT ACACAAATT TAGCGAAGAT ATAGGCAATC AATCGCGCAT CAATACCGTG	240
CGTTTAGAAA CTGGCACTAG GTCAATCTAT TCTGGGGGTG TTAAGTTT	288

(2) INFORMATION FOR SEQ ID NO: 273:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 273:

GCGAGCGCTC ATACGGTCAA TTTAAAGAT ATTGATACTG GTAATGGTGG TTTAACACC	60
TTAGATTTA GTGGTGTAC AAACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGTTGG TTAAAACCAA TGGGATAAGT	180

GTTGGGAAAT ACACAAATT TAGCGAAGAT ATAGGCAATC AATCGCGCAT CAACACCGTG	240
CGTTGGAAA CTGGCACTAG GTCAATCTAT TCTGGGGGTG TTAAAGTTT	288

(2) INFORMATION FOR SEQ ID NO: 274:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 288 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 274:

GCGAGCGCTC ATACGGTCAA TTTAAAGAT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGACTTTA GTGGTGTAC AAACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGTTGG TTAAAACCAA TGGGATAAGT	180
GTTGGGAAAT ACACAAATT TAGCGAAGAT ATAGGCAATC AATCGCGCAT CAACACCGTG	240
CGTTTAGAAA CTGGCACTAG GTCAATCTAT TCTGGGGGTG TTAAAGTTT	288

(2) INFORMATION FOR SEQ ID NO: 275:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 288 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 275:

GCGAGCGCTC ATACGGTCAA TTTAAAGAT ATTGATACTG GTAATGGTGG TTTCAATACC	60
TTAGACTTTA GTGGTGTAC AAACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAAATT CAACATTAAT GAATTGTTGG TTAAAACCAA TGGGATAAGT	180

GTGGGGGAAT ACACAAATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAACACCGTG	240
CGTTTAGAAA CTGGCACTAG GTCAATCTAT TCTGGGGGTG TTAAGTTT	288

(2) INFORMATION FOR SEQ ID NO: 276:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 276:

ACGAGCGCTC ATACGGTCAA TTTTAAAGAT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGACTTTA GTGGTGTAC AAACAAGGTC AACATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGCCA TTAAAAACTT CAACATTAAT GAGTTGTTGG TTAAAACCAA TGGGATAAGT	180
GTGGGGGAAT ACACAAATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAACACCGTG	240
CGTTTAGAAA CTGGCACTAG GTCAATCTAT TCTGGGGGTG TTAAGTTT	288

(2) INFORMATION FOR SEQ ID NO: 277:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 21 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 277:

ATGGAAATAC AACAAACACA C	21
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(2) INFORMATION FOR SEQ ID NO: 278:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 19 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 278:

CTGCTTGAAT GCGCCAAAC

19

(2) INFORMATION FOR SEQ ID NO: 279:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 279:

CACAGCCACT TTCAATAACG A

21

(2) INFORMATION FOR SEQ ID NO: 280:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 280:

CGTCAAAATA ATTCCAAGGG

20